

FILE NO.

SERVICE MANUAL Remote Control Digital Color Television

DP19640 (U.S.A.) (CANADA)

ORIGINAL VERSION



Chassis NO. P19640-00

NOTE: Match the chassis NO. on the unit's back cover with the chassis NO. in the Service Manual.

If the Original Version Service Manual Chassis NO. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

Servicing should be performed by only trained and qualified service personnel.

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Specifications

Specifications
POWER RATING120VAC
34 W(AVG.)
ANTENNA INPUT IMPEDANCE 75Ω
UHF/VHF/CATV
DIGITAL
RECEIVING CHANNEL 2-3 (VHF),
14-69 (UHF),
01, 14-94, 95-135 (CATV)
1-135 (DIGITAL)
REMOTE READY 32 KEY REMOTE CONTROL
SOUND OUTPUT3.0 W/CH
INTERMEDIATE FREQUENCY
PICTURE IF CARRIER 45.75MHz
SOUND IF CARRIER 41.25MHz
COLOR SUB CARRIER 42.17MHz
CABINET DIMENSIONS
WIDHT 460.3mm
HEIGHT 337.1mm
DEPTH INCLUDING BASE 152mm

SAFETY INSTRUCTIONS

SAFETY PRECAUTIONS

WARNING: The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

The following precautions must be observed:

- An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
- Comply with all caution and safety-related notes provided inside the cabinet, on the chassis, and on the back.
- When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.
- 4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside. Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

ANTENNA COLD CHECK

Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

LEKAGE GURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 μF 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.

PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a Λ in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.

AC VOLTMETER
(5000 ohms per volt or more sensitivity)

TELEVISION
RECEIVER

1500 ohm
10 watt
0.15 µF 150V AC

To be touched to all of exposed metal parts.

Voltmeter Hook-up for Leakage Current Check

READING SHOULD NOT EXCEED 750 mV.

SERVICING ELECTROSTATICALLY SENSITIVE DEVICES

Semiconductors (solid-state devices) that can be damaged by static electricity are referred to as Electrostatically Sensitive (ES) devices. Examples of typical ES devices are: Integrated Circuits (IC), Field-Effect Transistors (FET), and "chip" components. The following techniques should be observed strictly, to reduce the occurrence of semiconductor damage due to electrostatic discharge.

- Immediately prior to handling any semiconductor component or an assembly containing a semiconductor device or devices, discharge the electrostatic buildup on your body by touching a known earth ground. You may also obtain and wear a commercially available discharging wrist strap device.
 - **CAUTION**: Be sure to remove the wrist strap before applying power to any unit being serviced.
- 2. After removing an ES equipped assembly, place it on a conductive surface, such as, aluminum foil, to prevent buildup or exposure to static electricity.
- 3. Use only grounded-tip soldering irons to solder or unsolder ES devices.
- 4. Use only anti-static solder removal devices. Some suction-type devices can generate static electricity adequate to damage ES devices.
- 5. A replacement ES device will come packaged in protective material (conductive foam, aluminum foil, or some comparable conductive material). Do Not remove an ES device from its protective packaging unless you are prepared to install it immediately.
- Precisely prior to removing an ES device from its protective packaging, touch the protective packaging to the chassis or assembly in which the device will be installed.
 - **CAUTION**: Be sure that no power is applied to the chassis or circuit assembly.
- 7. Incidental body movements, such as, lifting a foot from a carpeted floor or the rubbing of fabric together can generate static electricity sufficient to damage ES devices. Therefore, minimize all body movements while handling exposed (unpackaged) ES devices.

SERVICE ADJUSTMENTS

GENERAL

This set has an On-screen Menu system included in the CPU that allows remote operation for most of the service adjustments.

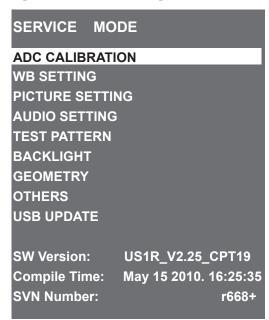
On-screen Service Menu System

Quick operation is needed to enter Service Mode.

☐ How to enter the Service Menu

- 1. Press and hold the **MENU** button on Side Controls.
- Keep pressing the MENU button and press "1" button on the remote control, and the Service Mode Menu will be displayed.

[Service Mode Menu]

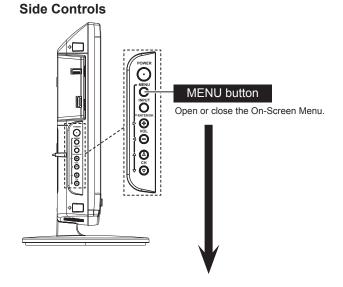


☐ How to select the service item and adjust data:

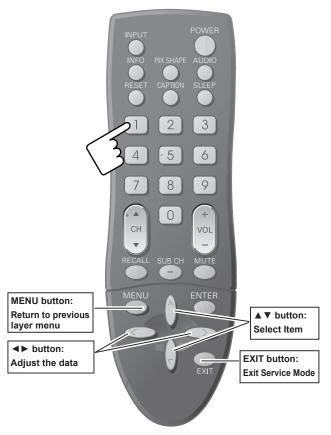
With the menu, press ▲, ▼, ◀ or ▶ button to navigate through the options or adjust an option. Press ENTER button to confirm a selection or enter a sub-menu. Press MENU button to return to previous layer menu.

☐ To exit service mode

Press **EXIT** button to exit service mode.



Remote Control



SERVICE ADJUSTMENTS

□ Setting the Initial data

1. RESET

If the Main Board or Flash IC (IC5800) is not replaced, to set the initial data, please follow the instructions below:

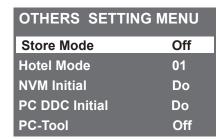
- 1) To set the value of Hotel Mode to 00. Two methods can be selected here:
- ① Enter the Service Mode, Select "OTHERS" by pressing ▲ or ▼ button, then press ENTER button to enter OTHERS menu. With the menu, press ▲ or ▼ button to select Hotel Mode and then press ◀ or ▶ button to set its value to 00.
- ② Keep pressing the Volume button on the side control, and after reconnect the AC power supply, appears on the screen the Hotel Mode menu. Press the Volume +/- buttons on the side control or the ◀ or ▶ button on the remote control to set the value to 00.
- 2) Press the EXIT button to quit the menu; by pressing twice the RESET button on the remote control restore TV to its factory settings.

2. Enter the Service Mode, and select OTHERS

This adjustment is controlled by the CPU (IC5500), and those adjustment data are memorized into the memory IC (IC5800). Therefore, Main board or the memory IC (IC5800) is replaced, these data will be disappeared. Readjust should be made. Initial data is provided in the CPU ROM, when the memory IC (IC5800) is replaced with new one. CPU ROM data is loaded into the memory. Initial data is provided to operating the monitor basically.

Note: This process can be operated only when the Main Board or Flash IC (IC5800) is replaced.

- ① Enter the Service Mode.
- ② Select "OTHERS" by pressing ▲ or ▼ button, then press ENTER button to enter OTHERS menu.



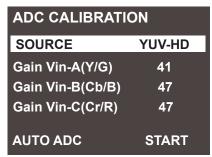
③ With the menu, press ▲, ▼ buttons to select **PC DDC Initial** and **NVM Initial**, then press ENTER button, after NVM initial operation is finished, please exit the menu. Disconnect the AC power supply and reconnect it, then all the data will return to factory default settings.

3. Picture quality adjustment

After executed initial function, for operating the monitor quality performance, **ADC CALIBRATION** and **WB SETTING** should be readjusted. Please enter Service Mode to adjust data.

☐ ADC CALIBRATION

- 1. Enter the Service Mode.
- 2. Select "ADC CALIBRATION" by pressing ▲ or ▼ button, then press ENTER button to enter ADC CALIBRATION menu.



3. Press ▲ or ▼ button to select "SOURCE" item, press ◀ or ▶ button to select YUV-HD or PC.

YUV-HD

- (1). For YPbPr(HD) source, the signal should be 1080i@60Hz, 8 step 100% color bar.
- (2). Enter the ADC CALIBRATION menu. Press ▲ or ▼ button to select "SOURCE" item.
- (3). Press ◀ or ▶ button to select YUV-HD.
- (4). Press ▲ or ▼ button to select AUTO ADC item, then press ENTER button.

PC

- (1). For PC source, the signal should be 1024x768@60Hz, 8 step 100% color bar.
- (2). Enter the ADC CALIBRATION menu. Press ▲ or ▼ button to select "SOURCE" item.
- (3). Press ◀ or ▶ button to select PC.
- (4). Press ▲ or ▼ button to select AUTO ADC item, then press ENTER button.
- **4.** Exit the Service Mode.

Wait for about several seconds until AUTO ADC adjust completed. Then press EXIT button to exit.

Note: If you want to adjust any item, please consult qualified service personnel.

SERVICE ADJUSTMENTS

☐ WB SETTING

Pattern

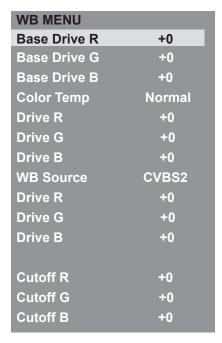
White Pattern 100% (in AV mode).

Condition

Picture Mode: STANDARD
Color Temperature: NORMAL
Aging Time: More than 10 minutes

Adjustment

- **1.** Enter the Service Mode.
- 2. Select "WB SETTING" by pressing ▲ or ▼ button, then press ENTER button to enter WB SETTING menu. Usually it only need to set the value of Base Drive R, Base Drive G and Base Drive B, and it is not necessary to set the value of others.



3. Exit the Service Mode.

After adjustment, confirm white balance again by normal picture.

Note:

Maybe BASE data for each TV set is different. And the items are for factory setting and Service Centre.

SAFETY PRECAUTIONS

CPU (IC5500) is programmed so the set will go to standby mode when there is circuit failure as described below. (Refer to "Block Diagram Power Lines".)

This unit is equipped with a Power Failure Detector function included in the CPU which checks for an abnormal condition in the chassis power supplies.

If, while the power is on, a failure is caused by any of the following that results in a low voltage supply, the CPU will turn the unit off to prevent further damage:

• Failure within the power supply circuits.

• A short circuit in the load side from the supply.

Power Failure: Detected voltage failure for circuit.

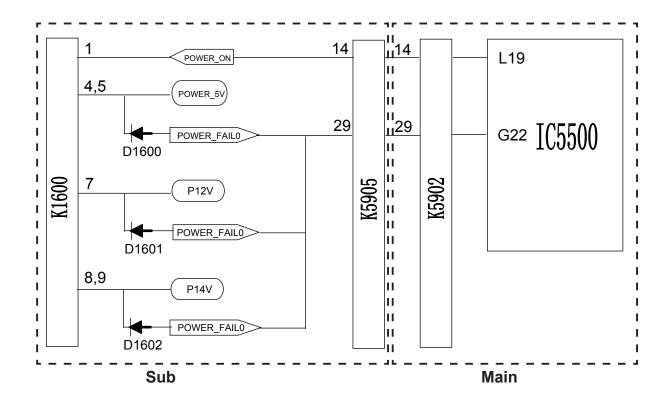
(Connected to IC5500 pin G22.) (Normal: High; Failure: Low)

If, while the power is off, the power is switched on and any of these failures remains uncorrected, the CPU will shut off the power within three seconds.

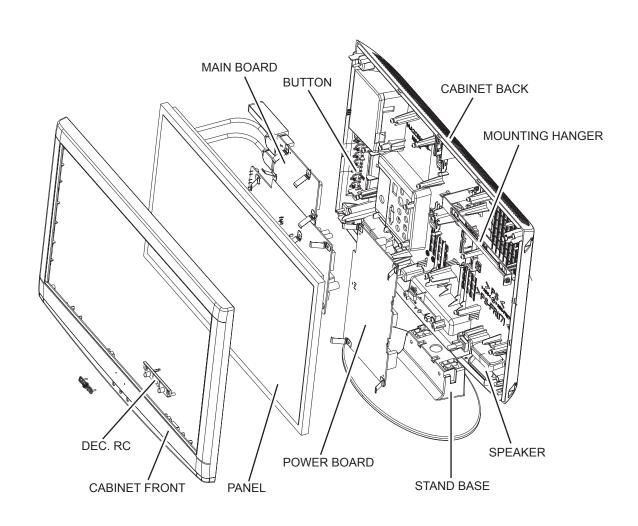
Check the following if the unit is turned off by the power failure detector.

- 1. Disconnect the AC power cord (120V AC line) for a short time.
- 2. Connect a DC Voltmeter to the circuits shown below.
- 3. Press the Power key and check for the proper voltage supplies.
- 4. If any of these voltages is low, the power failure detector should turn the unit off within three seconds.
- 5. Check all circuits shown below.

Note: If the power failure is detected when the TV set is switched on, the set will enter the standby mode; If such power failure is detected 3 times continously, the set cannot be switched On. To reset the operating programs of the CPU it is necessary to disconnect the AC cord for a short time.



[Disassembly Diagram]

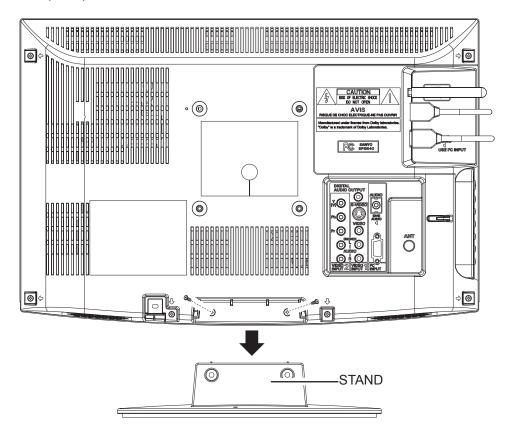


MECHANICAL DISASSEMBLY

CAUTION: This LCD TV uses several different kinds of screws. Using the correct screw is necessary to prevent damage. Lead wires must be redressed to their previous locations after servicing.

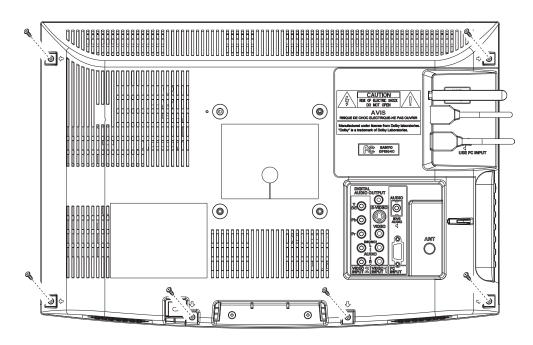
1. STAND REMOVAL

Note: Position TV face down on a padded or cushioned surface to protect the screen and finish. Remove 2 screws (4X16) to take the STAND off.



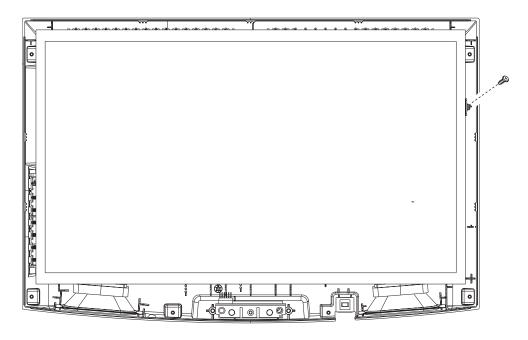
2. CABINET FRONT REMOVAL

Remove 6 screws (3X14) to take the CABINET FRONT off.



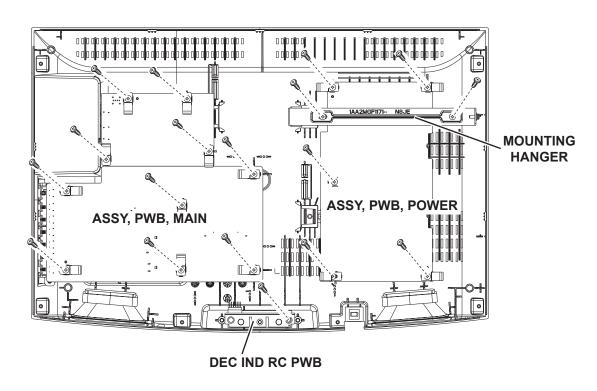
3. LCD PANEL REMOVAL

Remove 1 screw (3X8) to take LCD PANEL off.



4. ASSY, PWB, MAIN Board、ASSY, PWB, POWER Board、MOUNTING HANGER and DEC IND RC Board Removal

- 4.1 Remove 10 screws (3X10) to take ASSY, PWB, MAIN off.
- 4.2 Remove 2 screws (3X10) to take MOUNTING HANGER off.
- 4.3 Remove 5 screws (3X10) to take ASSY, PWB, POWER off.
- **4.4** Remove 1 screw (3X10) to take **DEC IND RC Board** off.



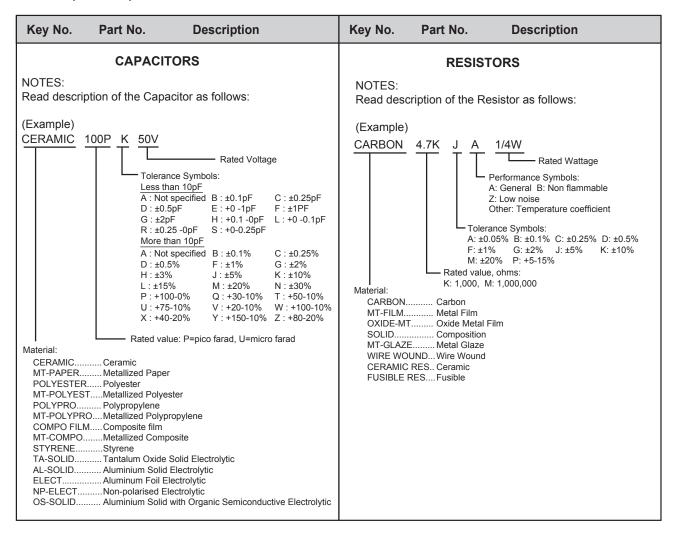
CHASSIS ELECTRICAL PARTS LIST

CAUTION: To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS and PRODUCT SAFETY NOTICE on Page 2.

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A \triangle IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A \triangle . NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A \triangle .

Note: Schematic part location numbers may not always match with the part descriptions. The part descriptions are correct and should be used.



Chassis Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a \triangle mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Parts order must contain Chassis No., Part No., and descriptions. The main PCB unit will be supplied without tuner and flyback transformer. They should be ordered separately.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	on	
OUT OF	CIRCUIT	BOARD	IC6802 IC6803	4096889313 4096941219	IC LM11178 IC ST1S10E		
LCD PANEL			CARACITOR				
\triangle EL901	6451026743	LCD(CLAA185WA03)	CAPACITOR C5500	4033690524	CERAMIC	0.01U K	25V
			C5500	4033690324	CERAMIC	0.010 K	25V 25V
MISCELLAN			C5502	4034670911	CERAMIC	0.1U K	25V
SP901	6520032095	SPEAKER,8	C5503	4034670911	CERAMIC	0.1U K	25V
SP902	6520032095	SPEAKER,8	C5504	4034670911	CERAMIC	0.1U K	25V
U901	6520032361	LIPS	C5505	4033690524	CERAMIC	0.01U K	25V
W1600	6520032026	ASSY, WIRE	C5506	4033690524	CERAMIC	0.01U K	25V
₩5901	6520032002	CORD 30PIN (LVDS)	C5507	4034670911	CERAMIC	0.1U K	25V
∆ ₩901	6451030238	CORD, POWER-2.0MK-VTR-2	C5508	4034670911	CERAMIC	0.1U K	25V
	6520031975	CORD, POWER-2000MK	C5509	4034670911	CERAMIC	0.1U K	25V
WSP	6520032293	NON STANDARD WIRE ASSY-JP	C5510	4034670911	CERAMIC	0.1U K	25V
6102400	040 400	V DWD MAINI NO IE	C5511	4034670911	CERAMIC	0.1U K	25V
0103488	042 ASS	Y,PWB,MAIN N8JE	C5512	4034670911	CERAMIC	0.1U K	25V
	1ΔΔ	0B10S30400	C5513	4033690524	CERAMIC	0.01U K	25V
	ina	0D10000+00	C5514	4034670911	CERAMIC	0.1U K	25V
TRANSISTO	R		C5515	4034670911	CERAMIC	0.1U K	25V
Q5500	4052156926	TR PMV40UN	C5516	4034670911	CERAMIC	0.1U K	25V
Q6520	4060214407	TR MMBTSC3928R	C5517	4034670911	CERAMIC	0.1U K	25V
Q0320	4050144519	TR 2SC2412K T146 R	C5518	4034670911	CERAMIC	0.1U K	25V
	4050144618	TR 2SC2412K T146 K	C5519	4034670911	CERAMIC	0.1U K	25V
	4050158724	TR 2SC2812-L6-TB	C5520	4041212903	CERAMIC	2.2U K	10V
	4050158922	TR 2SC2812-L7-TB	C5520	4033827811	CERAMIC	2.2U K	10V
	4051631612	TR 2SC2812N-L6-TB0	C5521	4041212903	CERAMIC	2.2U K	10V
	4051739813	TR 2SC3928A1R	C5521	4033827811	CERAMIC	2.2U K	10V
	4051739912	TR 2SC3928A1S	C5522	4041212903	CERAMIC	2.2U K	10V
Q6521	4060214407	TR MMBTSC3928R	C5522	4033827811	CERAMIC	2.2U K	10V
	4050144519	TR 2SC2412K T146 R	C5523	4041212903	CERAMIC	2.2U K	10V
	4050144618	TR 2SC2412K T146 S	C5523	4033827811	CERAMIC	2.2U K	10V
	4050158724	TR 2SC2812-L6-TB	C5524	4041212903	CERAMIC	2.2U K	10V
	4050158922	TR 2SC2812-L7-TB	C5524	4033827811	CERAMIC	2.2U K	10V
	4051631612	TR 2SC2812N-L6-TB0	C5525	4034670911	CERAMIC	0.1U K	25V
	4051739813	TR 2SC3928A1R	C5526	4033687316	CERAMIC	10U K	6.3V
	4051739912	TR 2SC3928A1S	C5527	4041212903	CERAMIC	2.2U K	10V
Q6522	4060224208	TR 2N7002	C5527	4033827811	CERAMIC	2.2U K	10V
Q6800	4060224406	TR RQJ0201UGDQA#H1	C5528	4033687316	CERAMIC	10U K	6.3V
Q6801	4060214407	TR MMBTSC3928R	C5529	4034670911	CERAMIC CERAMIC	0.1U K	25V 25V
	4050144519	TR 2SC2412K T146 R	C5530 C5531	4034670911 4034670911	CERAMIC	0.1U K 0.1U K	25V 25V
	4050144618	TR 2SC2412K T146 S	1			0.1U K	
	4050158724	TR 2SC2812-L6-TB	C5532 C5533	4034670911 4034670911	CERAMIC CERAMIC	0.10 K	25V 25V
	4050158922	TR 2SC2812-L7-TB	C5533	4034670911	CERAMIC	0.10 K	25V 25V
	4051631612	TR 2SC2812N-L6-TB0	C5535	4034670911	CERAMIC	0.10 K	25V 25V
	4051739813	TR 2SC3928A1R	C5536	4034670911	CERAMIC	0.10 K	25V 25V
	4051739912	TR 2SC3928A1S	C5537	4034670911	CERAMIC	0.1U K	25V
			C5538	4034670911	CERAMIC	0.1U K	25V
INTEGRATE			C5539	4034538518	CERAMIC	1000P K	50V
IC5500	4107108003	IC R8J04014BG-RJ	C5544	4040948902	CERAMIC	56P J	50V
IC5700	4106917408	IC A3R12E4JFF-G8E	C5545	4033690524	CERAMIC	0.01U K	25V
IC5800	4107080309	IC MX25L3205DM2I-12G-N8JE	C5546	4033690524	CERAMIC	0.01U K	25V
T05000	4107080408	IC AT26DF321-SU-N8JE	C5547	4034670911	CERAMIC	0.1U K	25V
IC5900	4106716308	IC XC6108N28AMR	C5548	4033687316	CERAMIC	10U K	
IC6500	4096959313	IC RT9711CGB	C5549	4034670911	CERAMIC	0.1U K	25V
IC6800	4096952116	IC LV5803M-TE-L-E	C5550	4033687316	CERAMIC	10U K	
IC6801	4096889313	IC LM1117S-ADJ					

Ref. No.	Part No.	Descriptio	n		Ref. No.	Part No.	Descriptio	n	
C5551	4034670911	CERAMIC	0.1U K	25V	C5632	4034670911	CERAMIC	0.1U K	25V
C5552	4034670911	CERAMIC	0.1U K	25V	C5633	4034670911	CERAMIC	0.1U K	25V
C5553	4034450513	CERAMIC	0.33U K	10V	C5634	4034670911	CERAMIC	0.1U K	25V
C5563	4034423814	ELECT	330U M	6.3V	C5635	4034670911	CERAMIC	0.1U K	25V
C5563	4034029917	ELECT	330U M	6.3V	C5636	4034670911	CERAMIC	0.1U K	25V
C5564	4033687316	CERAMIC	10U K	6.3V	C5637	4034670911	CERAMIC	0.1U K	25V
C5565 C5566	4034670911 4034670911	CERAMIC CERAMIC	0.1U K 0.1U K	25V 25V	C5638 C5639	4034670911 4034670911	CERAMIC CERAMIC	0.1U K 0.1U K	25V 25V
C5567	4034670911	CERAMIC	0.1U K	25V 25V	C5640	4034670911	CERAMIC	0.1U K	25V
C5568	4034670911	CERAMIC	0.1U K	25V	C5641	4034670911	CERAMIC	0.1U K	25V
C5569	4034670911	CERAMIC	0.1U K	25V	C5642	4033687316	CERAMIC	10U K	6.3V
C5570	4034670911	CERAMIC	0.1U K	25V	C5643	4034800912	CERAMIC	220P K	50V
C5571	4034670911	CERAMIC	0.1U K	25V	C5644	4034800912	CERAMIC	220P K	50V
C5572	4034670911	CERAMIC	0.1U K	25V	C5645	4041034901	CERAMIC	4.7U K	6.3V
C5573 C5574	4034670911 4033687316	CERAMIC CERAMIC	0.1U K 10U K	25V 6.3V	C5646	4033835212 4041034901	CERAMIC CERAMIC	4.7U K 4.7U K	6.3V 6.3V
C5575	4034670911	CERAMIC	0.1U K	25V	C3040	4033835212	CERAMIC	4.7U K	6.3V
C5576	4034670911	CERAMIC	0.1U K	25V	C5647	4034670911	CERAMIC	0.1U K	25V
C5577	4034670911	CERAMIC	0.1U K	25V	C5648	4034670911	CERAMIC	0.1U K	25V
C5578	4034670911	CERAMIC	0.1U K	25V	C5700	4034670911	CERAMIC	0.1U K	25V
C5579	4034670911	CERAMIC	0.1U K	25V	C5701	4034670911	CERAMIC	0.1U K	25V
C5580	4034537016	CERAMIC	33P J	50V	C5702	4034670911	CERAMIC	0.1U K	25V
C5581 C5582	4034537016 4034670911	CERAMIC CERAMIC	33P J 0.1U K	50V 25V	C5703 C5704	4034670911 4034670911	CERAMIC CERAMIC	0.1U K 0.1U K	25V 25V
C5583	4034670911	CERAMIC	0.1U K	25V 25V	C5704	4034670911	CERAMIC	0.1U K	25V
C5584	4034420417	CERAMIC	0.022U K	25V	C5706	4034670911	CERAMIC	0.1U K	25V
C5585	4032835718	CERAMIC	2200P K	50V	C5707	4034670911	CERAMIC	0.1U K	25V
C5586	4034670911	CERAMIC	0.1U K	25V	C5708	4034670911	CERAMIC	0.1U K	25V
C5587	4033945812	CERAMIC	4.7U K	16V	C5709	4034670911	CERAMIC	0.1U K	25V
C5588	4034670911	CERAMIC	0.1U K	25V	C5710	4034670911	CERAMIC	0.1U K	25V
C5589 C5590	4033687316 4033687316	CERAMIC CERAMIC	10U K 10U K	6.3V 6.3V	C5711 C5712	4034670911 4034670911	CERAMIC CERAMIC	0.1U K 0.1U K	25V 25V
C5591	4034670911	CERAMIC	0.1U K	25V	C5712	4034670911	CERAMIC	0.1U K	25V 25V
C5592	4034670911	CERAMIC	0.1U K	25V	C5714	4034670911	CERAMIC	0.1U K	25V
C5593	4034670911	CERAMIC	0.1U K	25V	C5715	4034670911	CERAMIC	0.1U K	25V
C5594	4034670911	CERAMIC	0.1U K	25V	C5716	4034670911	CERAMIC	0.1U K	25V
C5595	4034670911	CERAMIC	0.1U K	25V	C5718	4034670911	CERAMIC	0.1U K	25V
C5596 C5597	4034670911 4034670911	CERAMIC CERAMIC	0.1U K 0.1U K	25V 25V	C5719 C5720	4034670911 4033687316	CERAMIC CERAMIC	0.1U K 10U K	25V 6.3V
C5597	4034670911	CERAMIC	0.10 K	25V 25V	C5720 C5800	4034670911	CERAMIC	0.1U K	25V
C5599	4034670911	CERAMIC	0.1U K	25V	C5802	4034670911	CERAMIC	0.1U K	
C5600	4034670911	CERAMIC	0.1U K	25V	C5901	4034670911	CERAMIC	0.1U K	25V
C5601	4034670911	CERAMIC	0.1U K	25V	C5903	4033766219	CERAMIC	0.22U K	10V
C5602	4034670911	CERAMIC	0.1U K	25V	C6500	4034670911	CERAMIC	0.1U K	25V
C5603	4034670911	CERAMIC	0.1U K	25V	C6501	4034670911	CERAMIC	0.1U K	25V
C5604 C5605	4034670911 4034670911	CERAMIC CERAMIC	0.1U K 0.1U K	25V 25V	C6502 C6520	4034030319 4033687316	ELECT CERAMIC	220U M 10U K	10V 6.3V
C5606	4034670911	CERAMIC	0.10 K	25V 25V	C6520	4034670911	CERAMIC	0.1U K	25V
C5607	4034670911	CERAMIC	0.1U K	25V	C6800	4033819915	ELECT	470U M	16V
C5608	4034670911	CERAMIC	0.1U K	25V	C6802	4034670911	CERAMIC	0.1U K	25V
C5609	4034670911	CERAMIC	0.1U K	25V	C6803	4034420417	CERAMIC	0.022U K	25V
C5610	4034670911	CERAMIC	0.1U K	25V	C6805	4034670911	CERAMIC	0.1U K	25V
C5611	4034670911	CERAMIC	0.1U K	25V	C6806	4033860917	ELECT	100U M	16V
C5612 C5613	4033687316 4034670911	CERAMIC CERAMIC	10U K 0.1U K	6.3V 25V	C6807 C6808	4033690524 4034670911	CERAMIC CERAMIC	0.01U K 0.1U K	25V 25V
C5614	4033687316	CERAMIC	10U K	6.3V	C6809	4032246019	CERAMIC	4700P K	50V
C5615	4034670911	CERAMIC	0.1U K	25V	C6810	4034670911	CERAMIC	0.1U K	25V
C5616	4034423814	ELECT	330U M	6.3V	C6811	4033860917	ELECT	100U M	16V
C5616	4034029917	ELECT	330U M	6.3V	C6812	4034670911	CERAMIC	0.1U K	25V
C5617	4033687316	CERAMIC	10U K	6.3V	C6813	4033687316	CERAMIC	10U K	6.3V
C5618	4034670911	CERAMIC	0.1U K	25V	C6814	4033690524	CERAMIC	0.01U K	25V
C5626	4034670911	CERAMIC	0.1U K	25V	C6815	4034670911	CERAMIC	0.1U K	25V
C5627 C5628	4034670911 4034670911	CERAMIC CERAMIC	0.1U K 0.1U K	25V 25V	C6816 C6817	4033687316 4033690524	CERAMIC CERAMIC	10U K 0.01U K	6.3V 25V
C5629	4034670911	CERAMIC	0.1U K	25V 25V	C6818	4034670911	CERAMIC	0.1U K	25V
C5630	4034670911	CERAMIC	0.1U K	25V	C6819	4034670911	CERAMIC	0.1U K	25V
C5631	4034670911	CERAMIC	0.1U K	25V	C6823	4033906615	ELECT	22U M	10V

	Part No.	Description	! !	Ref. No.	Part No.	Description
C6824	4034670911	CERAMIC	0.1U K 25V	R5574	4012249016	MT-GLAZE 10K JA 1/16W
	4034670911	CERAMIC	0.1U K 25V	R5575	4012251217	MT-GLAZE 4.7K JA 1/16W
C6853	4034525013	CERAMIC	4.7U K 25V	R5576	4012251217	MT-GLAZE 4.7K JA 1/16W
C6854	4041212903	CERAMIC	2.2U K 10V	R5578	4012249016	MT-GLAZE 10K JA 1/16W
4	4033827811	CERAMIC	2.2U K 10V	R5580	4012249016	MT-GLAZE 10K JA 1/16W
C6855	4033819915	ELECT	470U M 16V	R5581	4012249016	MT-GLAZE 10K JA 1/16W
C6856	4033797312	CERAMIC	4700P K 50V	R5582	4012249016	MT-GLAZE 10K JA 1/16W
C6857	4041067800	CERAMIC	1U K 10V	R5583	4012249016	MT-GLAZE 10K JA 1/16W
	4040949701	CERAMIC	1U Z 10V	R5584	4012261513	MT-GLAZE 0.000 ZA 1/16W
	4033588316	CERAMIC	1U K 10V	R5585	4012261513	MT-GLAZE 0.000 ZA 1/16W
·	4033645811	CERAMIC	1U K 10V	R5588	4012251415	MT-GLAZE 47K JA 1/16W
DEGIGEOR				R5589	4012251415	MT-GLAZE 47K JA 1/16W
RESISTOR				R5590	4012249016	MT-GLAZE 10K JA 1/16W
	4012942917	MT-GLAZE	560 FA 1/16W	R5591	4012249016	MT-GLAZE 10K JA 1/16W
	4012249016	MT-GLAZE	10K JA 1/16W	R5594	4012261513	MT-GLAZE 0.000 ZA 1/16W
	4012249016	MT-GLAZE	10K JA 1/16W	R5595	4012261513	MT-GLAZE 0.000 ZA 1/16W
	4012249016	MT-GLAZE	10K JA 1/16W	R5596	4012251217	MT-GLAZE 4.7K JA 1/16W
	4012261513	MT-GLAZE MT-GLAZE	0.000 ZA 1/16W	R5700	4012250319	MT-GLAZE 33 JA 1/16W MT-GLAZE 33 JA 1/16W
	4012261513 4013368815		0.000 ZA 1/16W 6.8K FA 1/16W	R5701 R5702	4012250319 4012250319	MT-GLAZE 33 JA 1/16W MT-GLAZE 33 JA 1/16W
	4013366613	MT-GLAZE MT-GLAZE	0.000 ZA 1/16W	R5702 R5703	4012250319	MT-GLAZE 33 JA 1/16W MT-GLAZE 33 JA 1/16W
	4012261513	MT-GLAZE	0.000 ZA 1/16W 0.000 ZA 1/16W	R5703 R5704	4012250319	MT-GLAZE 33 JA 1/16W
	4012261513	MT-GLAZE	0.000 ZA 1/16W 0.000 ZA 1/16W	R5704 R5705	4012250319	MT-GLAZE 33 JA 1/16W
	4012201313	MT-GLAZE	1K FA 1/16W	R5705 R5706	4012250319	MT-GLAZE 33 JA 1/16W
	4012343112	MT-GLAZE	1K JA 1/16W	R5700	4012250319	MT-GLAZE 33 JA 1/16W
	4012249313	MT-GLAZE	1K JA 1/16W	R5707 R5708	4012250319	MT-GLAZE 33 JA 1/16W
	4013674411	MT-GLAZE	6.04K FA 1/16W	R5708 R5709	4012372516	MT-GLAZE 4.7 JA 1/16W
	4012249016	MT-GLAZE	10K JA 1/16W	R5710	4012372516	MT-GLAZE 4.7 JA 1/16W
	4012249719	MT-GLAZE	22 JA 1/16W	R5711	4013025510	MT-GLAZE 120 FA 1/16W
	4012249719	MT-GLAZE	22 JA 1/16W	R5711	4012250319	MT-GLAZE 33 JA 1/16W
	4012249016	MT-GLAZE	10K JA 1/16W	R5713	4012727811	MT-GLAZE 100 FA 1/16W
	4012249016	MT-GLAZE	10K JA 1/16W	R5714	4012727811	MT-GLAZE 100 FA 1/16W
	4013674312	MT-GLAZE	261 FA 1/16W	R5715	4012250319	MT-GLAZE 33 JA 1/16W
	4012261513	MT-GLAZE	0.000 ZA 1/16W	R5716	4012250319	MT-GLAZE 33 JA 1/16W
	4012249016	MT-GLAZE	10K JA 1/16W	R5717	4012250319	MT-GLAZE 33 JA 1/16W
R5534	4013368815	MT-GLAZE	6.8K FA 1/16W	R5718	4012250319	MT-GLAZE 33 JA 1/16W
R5535	4012249016	MT-GLAZE	10K JA 1/16W	R5719	4012250319	MT-GLAZE 33 JA 1/16W
R5537	4012249313	MT-GLAZE	1K JA 1/16W	R5720	4012250319	MT-GLAZE 33 JA 1/16W
R5540	4012249016	MT-GLAZE	10K JA 1/16W	R5721	4012250319	MT-GLAZE 33 JA 1/16W
R5542	4012249016	MT-GLAZE	10K JA 1/16W	R5722	4012250319	MT-GLAZE 33 JA 1/16W
R5543	4012249016	MT-GLAZE	10K JA 1/16W	R5723	4012250319	MT-GLAZE 33 JA 1/16W
R5544	4012249016	MT-GLAZE	10K JA 1/16W	R5724	4012250319	MT-GLAZE 33 JA 1/16W
R5545	4012249016	MT-GLAZE	10K JA 1/16W	R5725	4012250319	MT-GLAZE 33 JA 1/16W
	4012250319	MT-GLAZE	33 JA 1/16W	R5726	4012250319	MT-GLAZE 33 JA 1/16W
	4012250319	MT-GLAZE	33 JA 1/16W	R5800	4012249016	MT-GLAZE 10K JA 1/16W
	4012251415	MT-GLAZE	47K JA 1/16W	R5801	4012249719	MT-GLAZE 22 JA 1/16W
	4012249412	MT-GLAZE	1M JA 1/16W	R5802	4012249719	MT-GLAZE 22 JA 1/16W
	4012251415	MT-GLAZE	47K JA 1/16W	R5803	4012249016	MT-GLAZE 10K JA 1/16W
	4012249511	MT-GLAZE	2.2K JA 1/16W	R5805	4012249719	MT-GLAZE 22 JA 1/16W
	4012249016	MT-GLAZE	10K JA 1/16W	R5806	4012249719	MT-GLAZE 22 JA 1/16W
	4012249313	MT-GLAZE	1K JA 1/16W	R5807	4012249719	MT-GLAZE 22 JA 1/16W MT-GLAZE 10K JA 1/16W
	4012249016 4012249016	MT-GLAZE MT-GLAZE	10K JA 1/16W	R5808 R5815	4012249016 4012261513	MT-GLAZE 10K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
	4012249016	MT-GLAZE MT-GLAZE	10K JA 1/16W 10K JA 1/16W	R5815 R5816	4012241513	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 10K JA 1/16W
	4012249016	MT-GLAZE MT-GLAZE	10K JA 1/16W 10K JA 1/16W	R5816 R5900	4012249016	MT-GLAZE 10K JA 1/16W MT-GLAZE 100K JA 1/16W
	4012249016	MT-GLAZE	10K JA 1/16W	R5900	4012261513	MT-GLAZE 0.000 ZA 1/16W
	4012349914	MT-GLAZE	6.8K JA 1/16W	R5901	4012249016	MT-GLAZE 10K JA 1/16W
	4012345514	MT-GLAZE	3K JA 1/16W	R5903	4012249016	MT-GLAZE 10K JA 1/16W
	4012350019	MT-GLAZE	7.5K JA 1/16W	R5905	4012249016	MT-GLAZE 10K JA 1/16W
	4012261513	MT-GLAZE	0.000 ZA 1/16W	R5906	4012249016	MT-GLAZE 10K JA 1/16W
	4012248811	MT-GLAZE	100 JA 1/16W	R5907	4012249016	MT-GLAZE 10K JA 1/16W
	4012249313	MT-GLAZE	1K JA 1/16W	R5911	4012249016	MT-GLAZE 10K JA 1/16W
	4012249016	MT-GLAZE	10K JA 1/16W	R5912	4012249016	MT-GLAZE 10K JA 1/16W
	4012727811	MT-GLAZE	100 FA 1/16W	R5913	4012249016	MT-GLAZE 10K JA 1/16W
		MT-GLAZE	100 FA 1/16W	R5914	4012249016	MT-GLAZE 10K JA 1/16W
R5571 4	4012727811	MI-GLAZE	100 PA 1/10W	1(3)11		111 021122 1011 011 1,1011
	4012727811	MT-GLAZE	100 FA 1/16W	R5915	4012249313	MT-GLAZE 1K JA 1/16W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
DE 017	4012240212	ME CLASE 17 1/167	7.5510	(450262004	TANDUGEOR 220 OUM
R5917 R5918	4012249313 4012249313	MT-GLAZE 1K JA 1/16W MT-GLAZE 1K JA 1/16W	L5512	6450363894 6520016989	INDUCTOR,220 OHM INDUCTOR,220 OHM
R5918 R5920	4012249313	MT-GLAZE 1R JA 1/16W		6520032071	INDUCTOR,220 OHM
R5920	4012251313	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 47 JA 1/16W	L5513	6450363894	INDUCTOR,220 OHM
R6502	4012251811	MT-GLAZE	Пээтэ	6520016989	INDUCTOR, 220 OHM
R6503	4012249016	MT-GLAZE 10K JA 1/16W		6520032071	INDUCTOR, 220 OHM
R6505	4010375014	MT-GLAZE 0.000 ZA 1/10W	L6501	6450363894	INDUCTOR,220 OHM
R6506	4012261513	MT-GLAZE 0.000 ZA 1/16W		6520016989	INDUCTOR,220 OHM
R6507	4012261513	MT-GLAZE 0.000 ZA 1/16W		6520032071	INDUCTOR, 220 OHM
R6520	4012249917	MT-GLAZE 22K JA 1/16W	L6800	6450363894	INDUCTOR, 220 OHM
R6521	4012249917	MT-GLAZE 22K JA 1/16W		6520016989	INDUCTOR, 220 OHM
R6522	4012248811	MT-GLAZE 100 JA 1/16W		6520032071	INDUCTOR, 220 OHM
R6523	4012249313	MT-GLAZE 1K JA 1/16W	L6801	6520031746	INDUCTOR, 10UH
R6524	4012258117	MT-GLAZE 10 JA 1/16W	L6803	6450363894	INDUCTOR, 220 OHM
R6525	4012249016	MT-GLAZE 10K JA 1/16W		6520016989	INDUCTOR,220 OHM
R6526	4012249016	MT-GLAZE 10K JA 1/16W		6520032071	INDUCTOR,220 OHM
R6534	4012251217	MT-GLAZE 4.7K JA 1/16W	L6805	6520031753	INDUCTOR, 3.6UH
R6535	4012251217	MT-GLAZE 4.7K JA 1/16W	L6806	6450363894	INDUCTOR, 220 OHM
R6536	4012251217	MT-GLAZE 4.7K JA 1/16W		6520016989	INDUCTOR, 220 OHM
R6537	4012251217	MT-GLAZE 4.7K JA 1/16W		6520032071	INDUCTOR,220 OHM
R6545	4012249917	MT-GLAZE 22K JA 1/16W	DIODE		
R6801 R6802	4012248811 4012250616	MT-GLAZE 100 JA 1/16W MT-GLAZE 5.6K JA 1/16W	D6521	4072350813	DIODE 1SS387 TPL3
R6803	4012230010	MT-GLAZE 3.0K JA 1/10W MT-GLAZE 10K FA 1/16W	D6800	4072518718	DIODE 155367 IPL3 DIODE SS3P3-E3/84A
R6805	4012943013	MT-GLAZE 10K FA 1/10W MT-GLAZE 4.7K FA 1/16W	D0000	4072310710	DIODE 333F3-E37 04A
R6806	4013388110	MT-GLAZE 1.2K FA 1/16W	MISCELLAN	IFOLIS	
R6807	4012248910	MT-GLAZE 100K JA 1/16W	IC6520	4060203609	TR UPA672T-T1-A
R6808	4012249016	MT-GLAZE 10K JA 1/16W	K6500	6520031494	SOCKET, HDMI 19P
R6809	4012249917	MT-GLAZE 22K JA 1/16W	к6502	6520030626	SOCKET,USB 4P
R6810	4012248910	MT-GLAZE 100K JA 1/16W	SC6520	6450763502	SURGE-ABSORBER
R6811	4012943112	MT-GLAZE 1K FA 1/16W	SC6521	6450763502	SURGE-ABSORBER
R6812	4012994916	MT-GLAZE 470 FA 1/16W	SC6522	6450763502	SURGE-ABSORBER
R6813	4012943112	MT-GLAZE 1K FA 1/16W	SC6523	6450763502	SURGE-ABSORBER
R6814	4012994916	MT-GLAZE 470 FA 1/16W	X5500	6520031388	OSC.CRISTAL 25.000MHZ
R6815	4011506011	MT-GLAZE 0.000 ZA 1/10W			
R6816	4012175414	MT-GLAZE 47K FA 1/16W	6103488	3066 ASS'	Y,PWB,SUB N8JE
R6817	4012641919	MT-GLAZE 10K FA 1/10W		1 / / /	B10S3050A
R6818	4012184614	MT-GLAZE 5.6K FA 1/16W		IAA	JD 1053030A
R6823	4012248910	MT-GLAZE 100K JA 1/16W	TRANSISTO	.D	
R6825	4012261513	MT-GLAZE 0.000 ZA 1/16W		4060214407	mp MMpmcd2020p
R6826	4012249016	MT-GLAZE 10K JA 1/16W	Q001	4050214407	TR MMBTSC3928R TR 2SC2412K T146 R
COIL				4050144519	TR 2SC2412K T146 K
L5500	6450363894	INDUCTOR, 220 OHM		4050158724	TR 2SC2412K 1140 3
П2200	6520016989	INDUCTOR, 220 OHM INDUCTOR, 220 OHM		4050158922	TR 2SC2812-L7-TB
	6520032071	INDUCTOR, 220 OHM INDUCTOR, 220 OHM		4050130322	TR 2SC2812N-L6-TB0
L5501	4012556510	MT-GLAZE 100 JA 1/10W		4051739813	TR 2SC3928A1R
L5502	4012556510	MT-GLAZE 100 JA 1/10W		4051739912	TR 2SC3928A1S
L5503	6450835100	INDUCTOR, 0.22U J	Q002	4060214407	TR MMBTSC3928R
L5506	6450363894	INDUCTOR, 220 OHM		4050144519	TR 2SC2412K T146 R
	6520016989	INDUCTOR, 220 OHM		4050144618	TR 2SC2412K T146 S
	6520032071	INDUCTOR, 220 OHM		4050158724	TR 2SC2812-L6-TB
L5507	6450363894	INDUCTOR, 220 OHM		4050158922	TR 2SC2812-L7-TB
	6520016989	INDUCTOR, 220 OHM		4051631612	TR 2SC2812N-L6-TB0
	6520032071	INDUCTOR,220 OHM		4051739813	TR 2SC3928A1R
L5508	6450363894	INDUCTOR,220 OHM		4051739912	TR 2SC3928A1S
	6520016989	INDUCTOR,220 OHM	Q003	4060214407	TR MMBTSC3928R
	6520032071	INDUCTOR,220 OHM		4050144519	TR 2SC2412K T146 R
L5509	6450363894	INDUCTOR,220 OHM		4050144618	TR 2SC2412K T146 S
	6520016989	INDUCTOR, 220 OHM		4050158724	TR 2SC2812-L6-TB
	6520032071	INDUCTOR, 220 OHM		4050158922	TR 2SC2812-L7-TB
L5510	6450363894	INDUCTOR, 220 OHM		4051631612	TR 2SC2812N-L6-TB0
	6520016989	INDUCTOR, 220 OHM		4051739813	TR 2SC3928A1R
	6520032071	INDUCTOR, 220 OHM	01000	4051739912	TR 2SC3928A1S
L5511	6450363894	INDUCTOR, 220 OHM	Q1020	4060214407	TR MMBTSC3928R
	6520016989	INDUCTOR, 220 OHM		4050144519 4050144618	TR 2SC2412K T146 R TR 2SC2412K T146 S
	6520032071	INDUCTOR,220 OHM		4020144010	IN 25C24IZN 1140 5

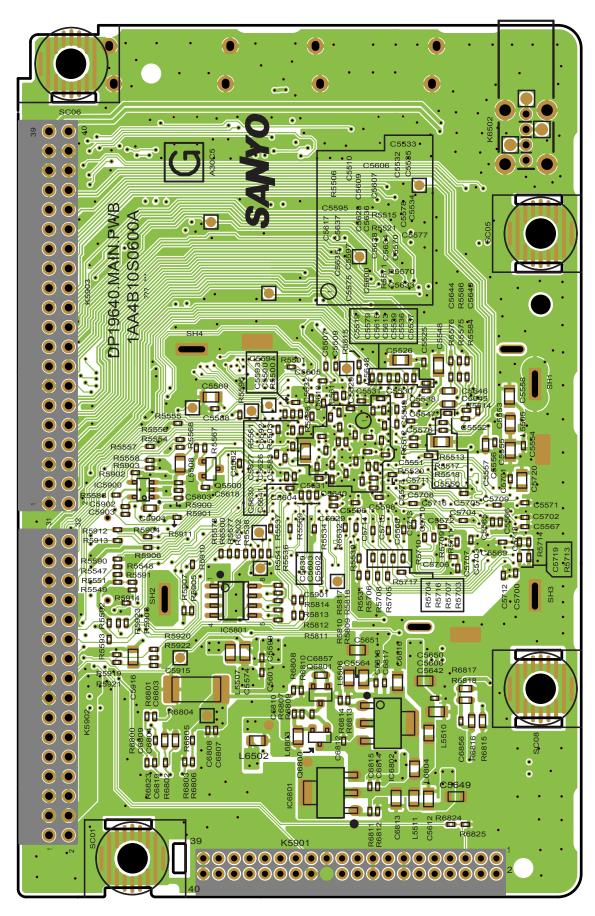
Ref. No.	Part No.	Description	า		Ref. No.	Part No.	Description		
	4050158724	TR 2SC2812	-L6-TB		C013	4041036608	CERAMIC	0.22U K	16V
	4050158922	TR 2SC2812	-L7-TB			4032812412	CERAMIC	0.22U K	16V
	4051631612	TR 2SC2812	N-L6-TB0			4033645910	CERAMIC	0.22U K	16V
	4051739813	TR 2SC3928	A1R		C014	4040972402	ELECT	1K U M	25V
	4051739912	TR 2SC3928	A1S		C015	4040970101	ELECT	1U M	50V
Q1605	4060224406	TR RQJ0201	UGDQA#H1			4032001123	ELECT	1U M	50V
Q1606	4060214407	TR MMBTSC3	928R		C100	4041097906	ELECT	220U M	16V
	4050144519	TR 2SC2412	K T146 R			4032115216	ELECT	220U M	16V
	4050144618	TR 2SC2412	K T146 S		C101	4041129300	ELECT	470U M	16V
	4050158724	TR 2SC2812	-L6-TB			4040988700	ELECT	470U M	16V
	4050158922	TR 2SC2812	-L7-TB		C102	4041036905	CERAMIC	0.1U K	25V
	4051631612	TR 2SC2812	N-L6-TB0			4040950806	CERAMIC	0.1U K	25V
	4051739813	TR 2SC3928	A1R			4033423310	CERAMIC	0.1U K	25V
	4051739912	TR 2SC3928	A1S		C1021	4031925915	CERAMIC	0.1U K	25V
Q1609	4060214407	TR MMBTSC3	928R		C103	4041047901	CERAMIC	22P J	50V
	4050144519	TR 2SC2412	K T146 R			4040947608	CERAMIC	22P J	50V
	4050144618	TR 2SC2412	K T146 S			4031459915	CERAMIC	22P J	50V
	4050158724	TR 2SC2812	-L6-TB		C104	4041047901	CERAMIC	22P J	50V
	4050158922	TR 2SC2812				4040947608	CERAMIC	22P J	50V
	4051631612	TR 2SC2812				4031459915	CERAMIC	22P J	50V
	4051739813	TR 2SC3928			C106	4041036905	CERAMIC	0.1U K	25V
	4051739912	TR 2SC3928				4040950806	CERAMIC	0.1U K	25V
Q1610	4060214407	TR MMBTSC3				4033423310	CERAMIC	0.1U K	25V
21010	4050144519	TR 2SC2412			C1505	4041040209	CERAMIC	100P J	50V
	4050144618	TR 2SC2412			01000	4040946403	CERAMIC	100P J	50V
	4050158724	TR 2SC2812				4031573611	CERAMIC	100P J	50V
	4050158724	TR 2SC2812			C1506	4041036905	CERAMIC	0.1U K	25V
	4050130322	TR 2SC2812			C1500	4041030903	CERAMIC	0.10 K	25V 25V
	4051031012	TR 2SC3928				4033423310	CERAMIC	0.10 K	25V 25V
	4051739813	TR 2SC3928			C1507	4041040209	CERAMIC	100P J	50V
	4031739912	IR 25C3920	AIS		C1307	4041040209		100P J	50V
NTEGRATE	D CIDCUIT						CERAMIC	100P J	
		TO TA420E2	To.		01510	4031573611	CERAMIC		50V
IC001	4095691907	IC LA42052			C1519	4041036905	CERAMIC	0.1U K	25V 25V
IC100	4094374712	IC L88M05T				4040950806	CERAMIC	0.1U K	
IC1501	4096973913	IC LE24C02			01610	4033423310	CERAMIC	0.1U K	25V
T01500	4107058308	IC M24C02-			C1618	4041130801	ELECT	100U M	16V
IC1502	4093973015		4FU-(TE85L		91610	4040971801	ELECT	100U M	16V
IC1503	4093973015		4FU-(TE85L)	C1619	4041036905	CERAMIC	0.1U K	25V
IC1601	4095599015	IC AMS1117				4040950806	CERAMIC	0.1U K	25V
1.500	4096836515	IC LM1117S				4033423310	CERAMIC	0.1U K	25V
IC1603	4095599015	IC AMS1117			C1620	4041130801	ELECT	100U M	16V
	4096836515	IC LM1117S	-3.3			4040971801	ELECT	100U M	16V
	•				C1621	4041036202	CERAMIC	0.01U K	25V
CAPACITOR						4040950707	CERAMIC	0.01U K	25V
C001	4041084104	ELECT	100U M	16V	C1622	4041036905	CERAMIC	0.1U K	25V
	4032112918	ELECT	100U M	16V		4040950806	CERAMIC	0.1U K	25V
C002	4041088706	NP-ELECT	4.7U M	50V		4033423310	CERAMIC	0.1U K	25V
C003	4041045600	CERAMIC	220P K	50V	C1628	4041130801	ELECT	100U M	16V
	4040913207	CERAMIC	220P K	50V		4040971801	ELECT	100U M	16V
	4031576216	CERAMIC	220P K	50V	C1629	4041036202	CERAMIC	0.01U K	25V
C004	4041045600	CERAMIC	220P K	50V	C1629	4040950707	CERAMIC	0.01U K	25V
	4040913207	CERAMIC	220P K	50V		4031551817	CERAMIC	0.01U K	25V
	4031576216	CERAMIC	220P K	50V	C1630	4041036905	CERAMIC	0.1U K	25V
C005	4041088706	NP-ELECT	4.7U M	50V		4040950806	CERAMIC	0.1U K	25V
C007	4041123506	ELECT	4.7U M	50V		4033423310	CERAMIC	0.1U K	25V
	4040973409	ELECT	4.7U M	50V	C1634	4041130801	ELECT	100U M	16V
C008	4040988502	ELECT	2200U M	16V	[4040971801	ELECT	100U M	16V
C009	4040972402	ELECT	1K U M	25V	C1635	4041036905	CERAMIC	0.1U K	25V
C010	4041036608	CERAMIC	0.22U K	16V		4040950806	CERAMIC	0.1U K	25V
	4032812412	CERAMIC	0.22U K	16V		4033423310	CERAMIC	0.1U K	25V
	4033645910	CERAMIC	0.22U K	16V	C1636	4041130801	ELECT	100U M	16V
	4041036608	CERAMIC	0.22U K	16V		4040971801	ELECT	100U M	16V
C011		CERAMIC	0.22U K	16V	C1637	4041036202	CERAMIC	0.01U K	25V
C011	4032812412	021422							
C011	4032812412 4033645910	CERAMIC	0.22U K	16V		4040950707	CERAMIC	0.01U K	25V
C011				16V 16V	C1638	4040950707 4041036905	CERAMIC CERAMIC	0.01U K 0.1U K	25V 25V
	4033645910	CERAMIC	0.22U K		C1638				

Ref. No.	Part No.	Descriptio	n		Ref. No.	Part No.	Description
C1640	4040972600	ELECT	470U M	25V	R112	4010691609	OXIDE-MT 68 JA 2W
C1641	4041036905	CERAMIC	0.1U K	25V	R113	4010691609	OXIDE-MT 68 JA 2W
	4040950806	CERAMIC	0.1U K	25V	R1500	4011623718	MT-GLAZE 4.7K JA 1/10W
	4033423310	CERAMIC	0.1U K	25V	R1503	4011623718	MT-GLAZE 4.7K JA 1/10W
C1643	4040972600	ELECT	470U M	25V	R1510	4012562719	MT-GLAZE 75 JA 1/10W
C1644	4041036905	CERAMIC	0.1U K	25V	R1511	4012562719	MT-GLAZE 75 JA 1/10W
	4040950806	CERAMIC	0.1U K	25V	R1512	4012562719	MT-GLAZE 75 JA 1/10W
01645	4033423310	CERAMIC	0.1U K	25V	R1513	4012565611	MT-GLAZE 47 JA 1/10W
C1645 C1646	4031350717 4040988700	CERAMIC ELECT	1U K 470U M	25V 16V	R1514 R1515	4012565611 4012565611	MT-GLAZE 47 JA 1/10W MT-GLAZE 47 JA 1/10W
C1647	4041036905	CERAMIC	0.1U K	25V	R1515 R1519	4012303011	MT-GLAZE 47 JA 1/10W MT-GLAZE 39K JA 1/10W
C1047	4041030905	CERAMIC	0.10 K	25V 25V	R1519	4011623411	MT-GLAZE 39K JA 1/10W
	4033423310	CERAMIC	0.1U K	25V	R1521	4012566014	MT-GLAZE 27K JA 1/10W
C3103	4041045600	CERAMIC	220P K	50V	R1522	4012566014	MT-GLAZE 27K JA 1/10W
	4040913207	CERAMIC	220P K	50V	R1523	4011506110	MT-GLAZE 2.2K JA 1/10W
	4031576216	CERAMIC	220P K	50V	R1524	4012558712	MT-GLAZE 22 JA 1/10W
C3112	4041045600	CERAMIC	220P K	50V	R1525	4011506110	MT-GLAZE 2.2K JA 1/10W
	4040913207	CERAMIC	220P K	50V	R1526	4012558712	MT-GLAZE 22 JA 1/10W
	4031576216	CERAMIC	220P K	50V	R1527	4011506011	MT-GLAZE 0.000 ZA 1/10W
					R1528	4011506011	MT-GLAZE 0.000 ZA 1/10W
RESISTOR					R1529	4012556510	MT-GLAZE 100 JA 1/10W
R005	4012560418	MT-GLAZE	12K JA	1/10W	R1530	4012556510	MT-GLAZE 100 JA 1/10W
R006	4010634616	OXIDE-MT	8.2 JA	1W	R1531	4011623718	MT-GLAZE 4.7K JA 1/10W
	4010634606	OXIDE-MT	8.2 JA	1W	R1601	4011506011	MT-GLAZE 0.000 ZA 1/10W
R007	4010634616	OXIDE-MT	8.2 JA	1W	R1602	4011505915	MT-GLAZE 10K JA 1/10W
	4010634606	OXIDE-MT	8.2 JA	1W	R1610	4012566014	MT-GLAZE 27K JA 1/10W
R008	4013122516	MT-GLAZE	2.2 FA	1/2W	R1611	4012566014	MT-GLAZE 27K JA 1/10W
R009	4013122516	MT-GLAZE	2.2 FA	1/2W	R1612	4011505915	MT-GLAZE 10K JA 1/10W
R012	4011505915	MT-GLAZE	10K JA		R1659	4011506219	MT-GLAZE 1K JA 1/10W
R014 R015	4011505816 4011624012	MT-GLAZE MT-GLAZE	100K JA 560 JA		R1670 R1671	4011505915 4011505915	MT-GLAZE 10K JA 1/10W MT-GLAZE 10K JA 1/10W
R015 R017	4011624012	MT-GLAZE	100 JA		R1071 R1951	4011505915	MT-GLAZE 10K JA 1/10W MT-GLAZE 11K JA 1/10W
R017	4012530310	MT-GLAZE	22K JA		R1951 R1952	4012557715	MT-GLAZE 11K UA 1/10W MT-GLAZE 6.2K JA 1/10W
R019	4011506011	MT-GLAZE	0.000 ZA		R1953	4012565413	MT-GLAZE 3.6K JA 1/10W
R020	4011505915	MT-GLAZE	10K JA		R1954	4012565918	MT-GLAZE 2.7K JA 1/10W
R021	4011505915	MT-GLAZE	10K JA		R1955	4011622810	MT-GLAZE 1.8K JA 1/10W
R051	4011544211	MT-GLAZE	0.000 ZA	1/4W	R1956	4012561613	MT-GLAZE 1.3K JA 1/10W
R052	4011544211	MT-GLAZE	0.000 ZA	1/4W	R3103	4011505915	MT-GLAZE 10K JA 1/10W
R053	4011506011	MT-GLAZE	0.000 ZA	1/10W	R3110	4011505915	MT-GLAZE 10K JA 1/10W
R1000	4012562719	MT-GLAZE	75 JA	1/10W	R3114	4011505915	MT-GLAZE 10K JA 1/10W
R1007	4012562719	MT-GLAZE	75 JA	1/10W	R3115	4011505915	MT-GLAZE 10K JA 1/10W
R1008	4012556510	MT-GLAZE	100 JA	1/10W			
R101	4012556510	MT-GLAZE	100 JA	1/10W	COIL		
R1012	4012562719	MT-GLAZE	75 JA		L1000	4011506011	MT-GLAZE 0.000 ZA 1/10W
R1013	4012566014	MT-GLAZE	27K JA		L1001	4011506011	MT-GLAZE 0.000 ZA 1/10W
R1014	4011623411	MT-GLAZE	39K JA		L1002	4011506011	MT-GLAZE 0.000 ZA 1/10W
R1015	4012566014	MT-GLAZE	27K JA		L1003	4011506011	MT-GLAZE 0.000 ZA 1/10W
R1016	4011623411	MT-GLAZE	39K JA 100 JA		L1004	4011506011	MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 0.000 ZA 1/10W
R102	4012556510	MT-GLAZE	100 JA 2.2K JA		L1005	4011506011	
R1020 R1021	4011506110 4012563815	MT-GLAZE MT-GLAZE	2.2K JA 1.5K JA		L1006 L1007	4011506011 4011506011	MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 0.000 ZA 1/10W
R1021 R1022	4012503813	MT-GLAZE	3.3K JA		L1007	4011506011	MT-GLAZE 0.000 ZA 1/10W
R1022 R1023	4011623114	MT-GLAZE	220 JA		L1008	4011506011	MT-GLAZE 0.000 ZA 1/10W
R1023 R1024	4011022313	MT-GLAZE	75 JA		L1010	4011506011	MT-GLAZE 0.000 ZA 1/10W
R1024	4011505816	MT-GLAZE	100K JA		L1500	4011506011	MT-GLAZE 0.000 ZA 1/10W
R1030	4012562719	MT-GLAZE	75 JA		L1501	4011506011	MT-GLAZE 0.000 ZA 1/10W
R1034	4012562719	MT-GLAZE	75 JA		L1501	4011506011	MT-GLAZE 0.000 ZA 1/10W
R1031	4012562719	MT-GLAZE	75 JA		L1502	4011506011	MT-GLAZE 0.000 ZA 1/10W
R104	4011506011	MT-GLAZE	0.000 ZA		L1504	6450363894	INDUCTOR,220 OHM
R1042	4012566014	MT-GLAZE	27K JA			6520016989	INDUCTOR, 220 OHM
R1043	4011623411	MT-GLAZE	39K JA			6520032071	INDUCTOR,220 OHM
R1045	4012566014	MT-GLAZE	27K JA		L1602	6450363894	INDUCTOR,220 OHM
R1046	4011623411	MT-GLAZE	39K JA			6520016989	INDUCTOR,220 OHM
R105	4011506011	MT-GLAZE	0.000 ZA			6520032071	INDUCTOR, 220 OHM
R106	4011506011	MT-GLAZE	0.000 ZA		L1603	6450363894	INDUCTOR, 220 OHM
R108	4011623718	MT-GLAZE	4.7K JA	1/10W		6520016989	INDUCTOR, 220 OHM
R109	4011623718	MT-GLAZE	4.7K JA	1/10W		6520032071	INDUCTOR, 220 OHM

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
L1605	6450363894	INDUCTOR,220 OHM	K1503	6520029958	JACK, PHONE D3.6
	6520016989	INDUCTOR, 220 OHM	SC1000	6450763502	SURGE-ABSORBER
	6520032071	INDUCTOR,220 OHM	SC1001	6450763502	SURGE-ABSORBER
L1611	6450363894	INDUCTOR,220 OHM	SC1002	6450763502	SURGE-ABSORBER
	6520016989	INDUCTOR,220 OHM	SC1003	6450763502	SURGE-ABSORBER
	6520032071	INDUCTOR,220 OHM	SC1004	6450763502	SURGE-ABSORBER
			SC1005	6450763502	SURGE-ABSORBER
DIODE			SC1006	6450763502	SURGE-ABSORBER
D1500	4072128818	DIODE KDS160-RTK	SC1007	6450763502	SURGE-ABSORBER
	4080627201	DIODE 1SS35	SC1008	6450763502	SURGE-ABSORBER
	4080660000	DIODE 155355T1G	SC1009	6450763502	SURGE_ABSORBER
	4071630411 4071490817	DIODE 1SS352-(TPH3) DIODE 1SS355-TE-17	SC1010 SC1500	6450763502 6450763502	SURGE-ABSORBER SURGE-ABSORBER
D1501	4072128818	DIODE KDS160-RTK	SC1500 SC1501	6450763502	SURGE-ABSORBER
D1301	4080627201	DIODE 1SS35	SC1501 SC1504	6450763502	SURGE-ABSORBER
	4080660000	DIODE L1SS355T1G	SC1505	6450763502	SURGE-ABSORBER
	4071630411	DIODE 1SS352-(TPH3)	SC1506	6450763502	SURGE-ABSORBER
	4071490817	DIODE 1SS355-TE-17	SC1507	6450763502	SURGE-ABSORBER
D1502	4072089713	ZD UDZS-TE-175.6B	SC1508	6450763502	SURGE-ABSORBER
	4080629700	ZENER DIODE MM3Z5V6B	SC1951	6450763502	SURGE-ABSORBER
D1503	4072089713	ZD UDZS-TE-175.6B	SC1952	6450763502	SURGE-ABSORBER
	4080629700	ZENER DIODE MM3Z5V6B	SW1951	6450034701	SWITCH, PUSH 1P-1TX1
D1600	4072128818	DIODE KDS160-RTK		6450194887	SWITCH, PUSH 1P-1TX1
	4080627201	DIODE 1SS35		6520018761	SWITCH, PUSH 1P-1TX1
	4080660000	DIODE L1SS355T1G	SW1952	6450034701	SWITCH, PUSH 1P-1TX1
	4071630411	DIODE 1SS352-(TPH3)		6450194887	SWITCH, PUSH 1P-1TX1
	4071490817	DIODE 1SS355-TE-17		6520018761	SWITCH, PUSH 1P-1TX1
D1601	4072128818	DIODE KDS160-RTK	SW1953	6450034701	SWITCH, PUSH 1P-1TX1
	4080627201	DIODE 1SS35		6450194887	SWITCH, PUSH 1P-1TX1
	4080660000	DIODE L1SS355T1G		6520018761	SWITCH, PUSH 1P-1TX1
	4071630411 DIODE 1SS352-(TPH3)		SW1954	6450034701	SWITCH, PUSH 1P-1TX1
	4071490817	DIODE 1SS355-TE-17		6450194887	SWITCH, PUSH 1P-1TX1
D1602	4072128818	DIODE KDS160-RTK		6520018761	SWITCH, PUSH 1P-1TX1
	4080627201	DIODE 1SS35	SW1955	6450034701	SWITCH, PUSH 1P-1TX1
	4080660000	DIODE 198355T1G		6450194887 6520018761	SWITCH, PUSH 1P-1TX1
	4071630411 4071490817	DIODE 1SS352-(TPH3) DIODE 1SS355-TE-17	SW1956	6450034701	SWITCH, PUSH 1P-1TX1 SWITCH, PUSH 1P-1TX1
	40/14/001/	D10DE 188333-1E-17	5,1750	6450194887	SWITCH, PUSH 1P-1TX1
MISCELLAN	EOUS			6520018761	SWITCH, PUSH 1P-1TX1
A101	6451025319	TUNER, U/V	SW1957	6450034701	SWITCH, PUSH 1P-1TX1
J005	4011506011	MT-GLAZE 0.000 ZA 1/10W		6450194887	SWITCH, PUSH 1P-1TX1
J006	4011506011	MT-GLAZE 0.000 ZA 1/10W		6520018761	SWITCH, PUSH 1P-1TX1
J101	4011506011	MT-GLAZE 0.000 ZA 1/10W	ZD001	4072505817	ZENER DIODE KDZ10V
J102	4011506011	MT-GLAZE 0.000 ZA 1/10W		4072065618	ZENER DIODE UDZS-TE-1710B
J103	4011506011	MT-GLAZE 0.000 ZA 1/10W		4080632403	ZENER DIODE MM3Z 10B
J105	4011506011	MT-GLAZE 0.000 ZA 1/10W			
J1516	4011506011	MT-GLAZE 0.000 ZA 1/10W	6103488	8073 ASSY	,PWB,RC+LED N8JE
J5903	4011506011	MT-GLAZE 0.000 ZA 1/10W			´ ´
J5905	4011506011	MT-GLAZE 0.000 ZA 1/10W		IAAU	B10S3050B
J5906	4011506011	MT-GLAZE 0.000 ZA 1/10W		_	
J5907	4011506011	MT-GLAZE 0.000 ZA 1/10W	TRANSISTO		
J5908	4011506011	MT-GLAZE 0.000 ZA 1/10W	Q1900	4052203115	TR ISA1235AC1E
J5909	4011506011	MT-GLAZE 0.000 ZA 1/10W		4052203016	TR ISA1235AC1F
J5910	4011506011	MT-GLAZE 0.000 ZA 1/10W		4060214308	TR MMBTSA1235F
J5911	4011506011	MT-GLAZE 0.000 ZA 1/10W		4051345925	TR 2SA1037AK-T146-R
J5912	4011506011	MT-GLAZE 0.000 ZA 1/10W		4051472215	TR 2SA1037AK-S-T146
J5913	4011506011	MT-GLAZE 0.000 ZA 1/10W		4051739615	TR 2SA1235A1E
J5915	4011506011	MT-GLAZE 0.000 ZA 1/10W	01001	4051739714	TR 2SA1235A1F
J5916	4011506011	MT-GLAZE 0.000 ZA 1/10W	Q1901	4052203115 4052203016	TR ISA1235AC1E
J5917	4011506011	MT-GLAZE 0.000 ZA 1/10W			TR ISA1235AC1F
J5918	4011506011	MT-GLAZE 0.000 ZA 1/10W		4060214308	TR MMBTSA1235F
J5919	4011506011	MT-GLAZE 0.000 ZA 1/10W		4051345925 4051472215	TR 2SA1037AK-T146-R TR 2SA1037AK-S-T146
K1000	6520031418	JACK, RCA-3		4051739615	TR 2SA1037AK-S-T146 TR 2SA1235A1E
K1001	6520031449	JACK, RCA-1		4051739615	TR 2SA1235A1E TR 2SA1235A1F
K1002 K1003	6520031425 6520031432	JACK,RCA-5 SOCKET,DIN 4P		4031135/14	IN ZURIZUURIF
K1003 K1502	6520031432	SOCKET, DIN 4P SOCKET, D-SUB 15P	CAPACITOR	1	
1.1302	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u> </u>		

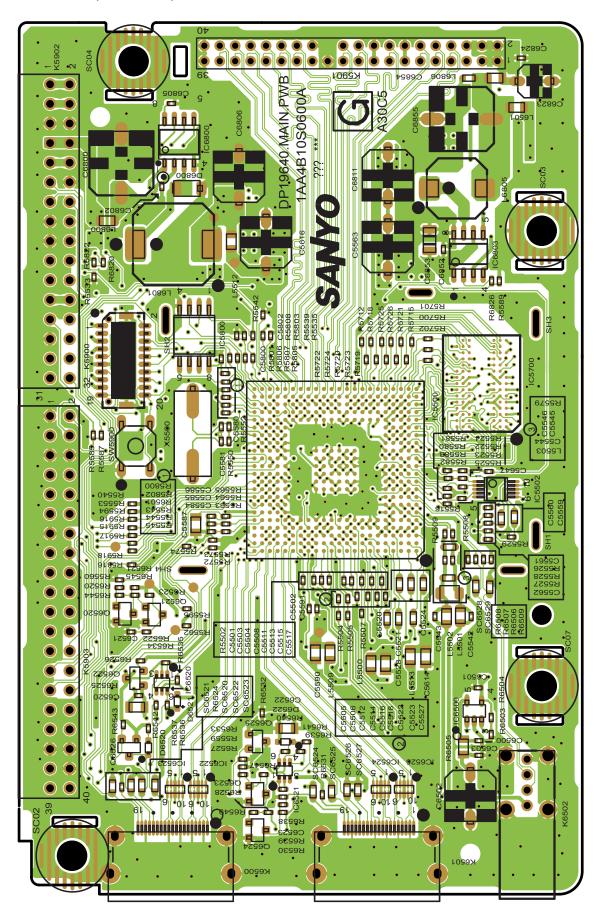
	Part No.	Description	Ref. No.	Part No.	Description
C1900	4041036905	CERAMIC 0.1U K 25V		•	•
	4040950806	CERAMIC 0.1U K 25V			
	4033423310	CERAMIC 0.1U K 25V			
C1901	4034374611	CERAMIC 10U K 25V			
C1901	4034374611	CERAMIC 100 K 25V			
C1902	40343/4611	CERAMIC 100 K 25V			
RESISTOR					
R1900	4011623015	MT-GLAZE 22K JA 1/10W			
R1901	4011622711	MT-GLAZE 180 JA 1/10W			
R1902	4012566212	MT-GLAZE 270 JA 1/10W			
R1903	4011623015	MT-GLAZE 22K JA 1/10W			
R1905	4011506110	MT-GLAZE 2.2K JA 1/10W			
R1906	4012565611	MT-GLAZE 47 JA 1/10W			
R1907	4011506011	MT-GLAZE 0.000 ZA 1/10W			
OIODE					
D1900	4071589204	LED SPR-39MVWF			
D1900A	6520015586	LED SPACER-N3EA			
	6550026538	LED SPACER-N3EA			
IISCELLAN	NEOUS				
U1900	6520031999	UNIT, REMOCON, RECEIVER			
ABINET P	ARTS LIST				
	6103489209	CABINET FRONT-N8JE			
	6103489254	DEC IND RC-N8JE			
	6103475424	BADGE SANYO-BH4A			
	6102764857	SPACER SHEET-S4KF			
	6103483115	SPACER SHEET A-BH4A 5X200			
	4111026202	COD D MAD BLC 2V10E			
	4111926303	SCR P-TAP FLG 3X10E			
	6103489223	BUTTON UNITED-N8JE			
	6103489216	CABINET BACK-N8JE			
	6103489308	MOUNTING HANGER A-N8JE			
	6103489292	RUBBER PAD-N8JE			
	6103509525	STAND BASE A-N8JE			
	6103494579	BAG A-N8JE			
0050005	RIES LIST				
ICCESSOR					
	6520033191	REMOCON.GXFA			
 	6520033191 6103329550	REMOCON,GXFA RC-BATTERY LID-GXCB			
	6520033191 6103329550	REMOCON,GXFA RC-BATTERY LID-GXCB			
 or 	6103329550	RC-BATTERY LID-GXCB			
 or					
 or 	6103329550 6520030855 6103329550	RC-BATTERY LID-GXCB REMOCON,GXCF RC-BATTERY LID-GXCB			
 or 	6103329550 6520030855 6103329550 6103496160	RC-BATTERY LID-GXCB REMOCON, GXCF RC-BATTERY LID-GXCB INSTRUCTION MANUAL-N8JE			
 or 	6103329550 6520030855 6103329550 6103496160 6103496924	RC-BATTERY LID-GXCB REMOCON, GXCF RC-BATTERY LID-GXCB INSTRUCTION MANUAL-N8JE QUICK-N EASY SETUP GUIDE			
 or 	6103329550 6520030855 6103329550 6103496160	RC-BATTERY LID-GXCB REMOCON, GXCF RC-BATTERY LID-GXCB INSTRUCTION MANUAL-N8JE			

MAIN BOARD (Solder Side)



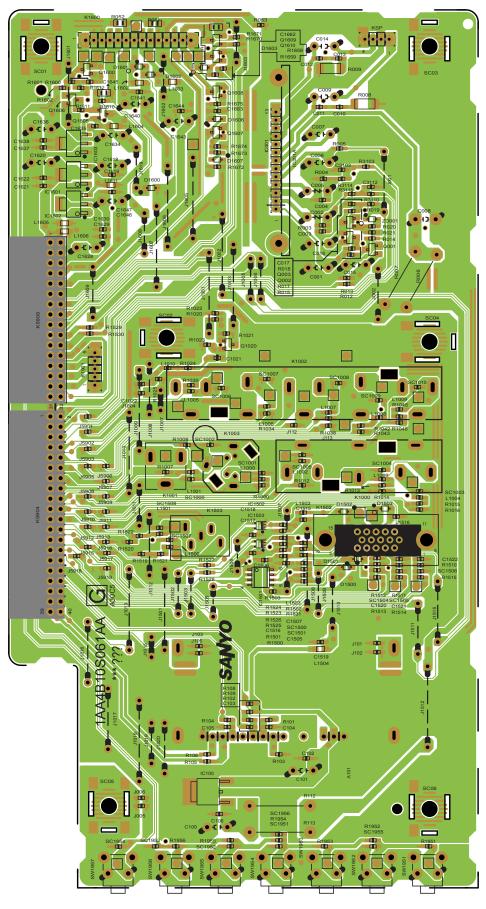
COMPONENT AND TESTPOINT LOCATIONS

MAIN BOARD (Part Side)

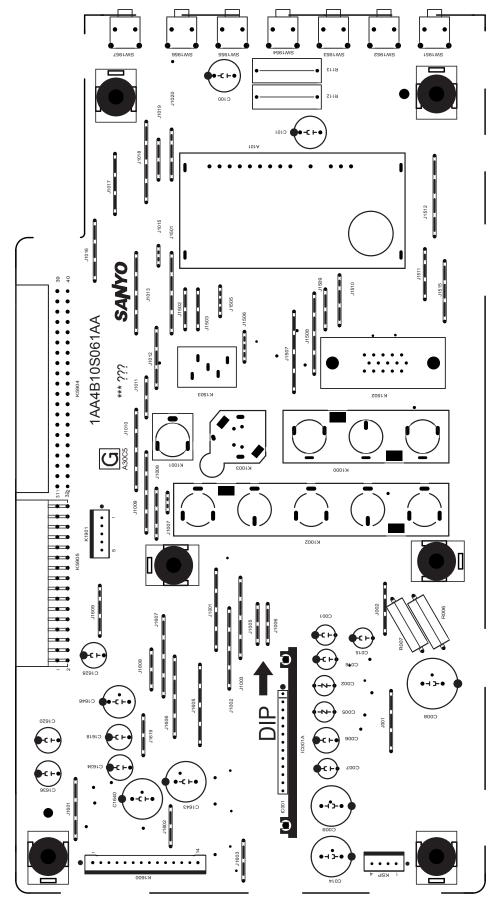


COMPONENT AND TESTPOINT LOCATIONS

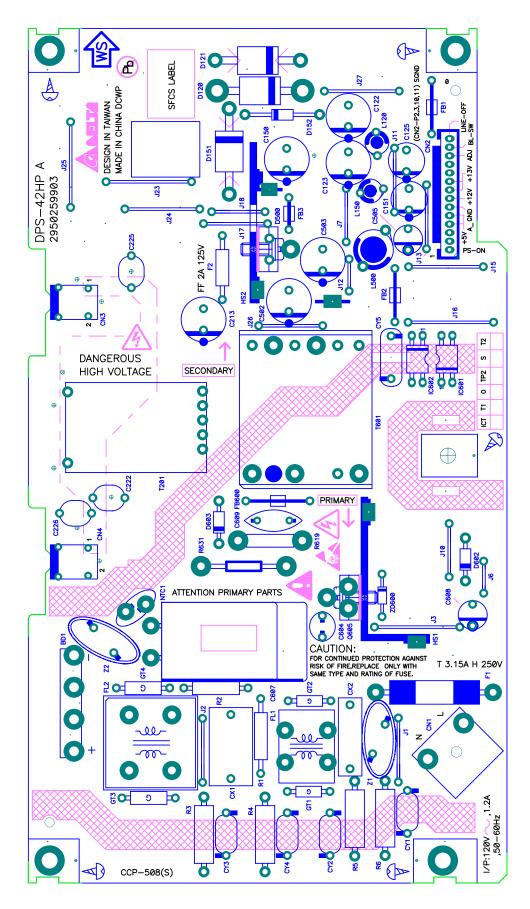
SUB BOARD (Solder Side)



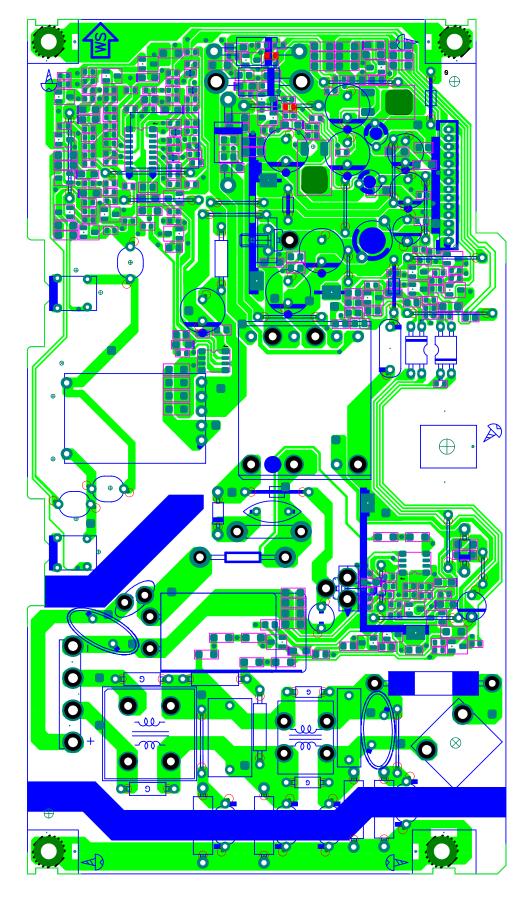
SUB BOARD (Part Side)



POWER BOARD (Solder Side)

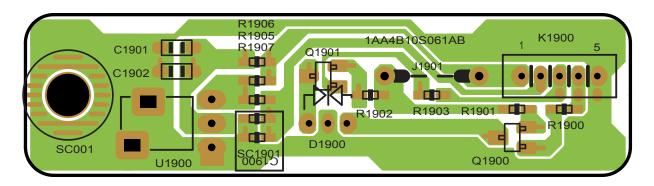


POWER BOARD (Part Side)

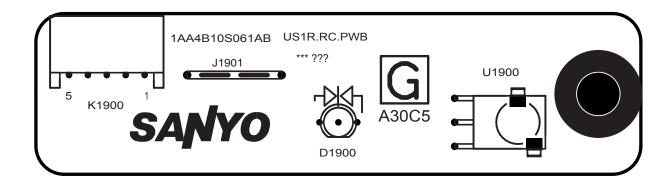


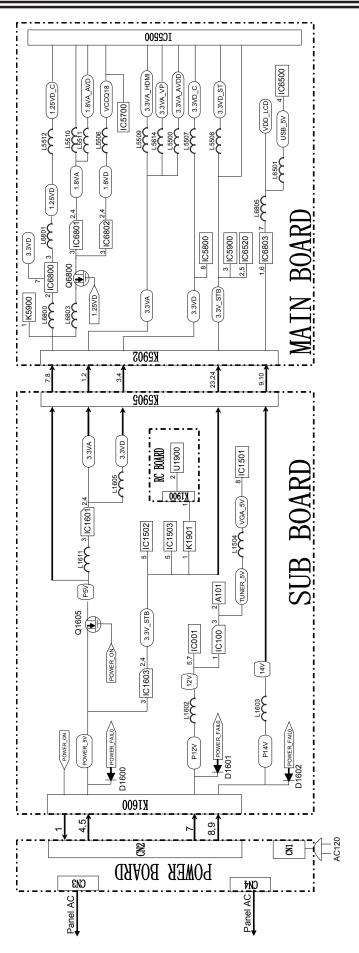
COMPONENT AND TESTPOINT LOCATIONS

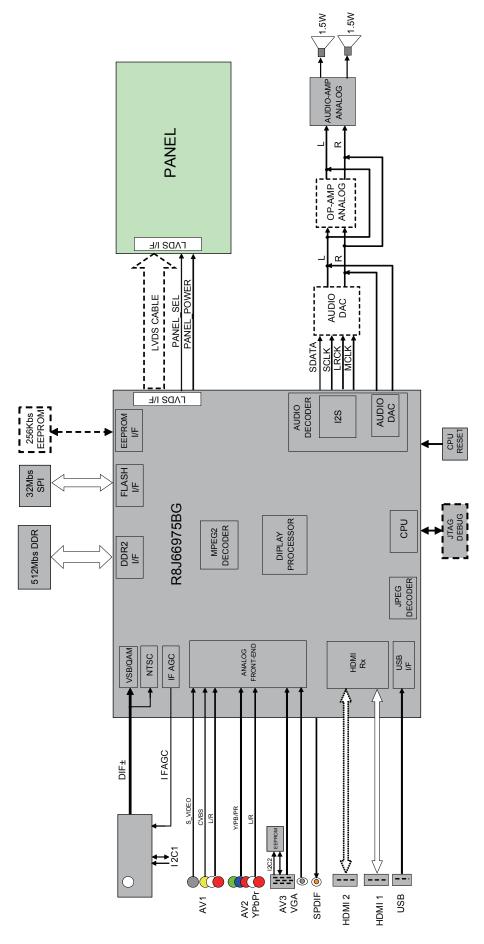
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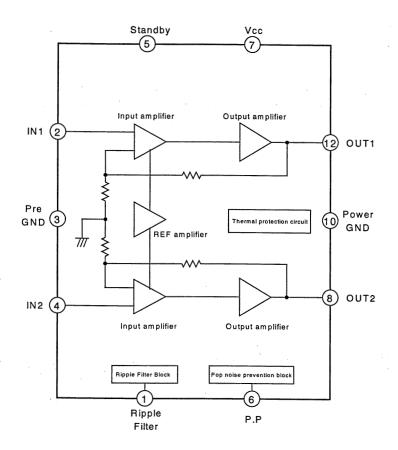
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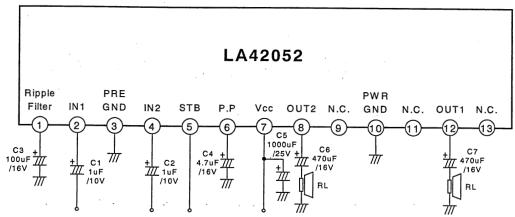




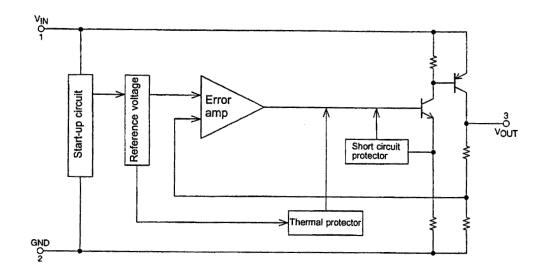


IC001 QLA42052-E--N

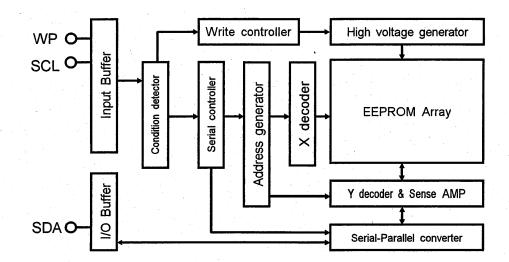




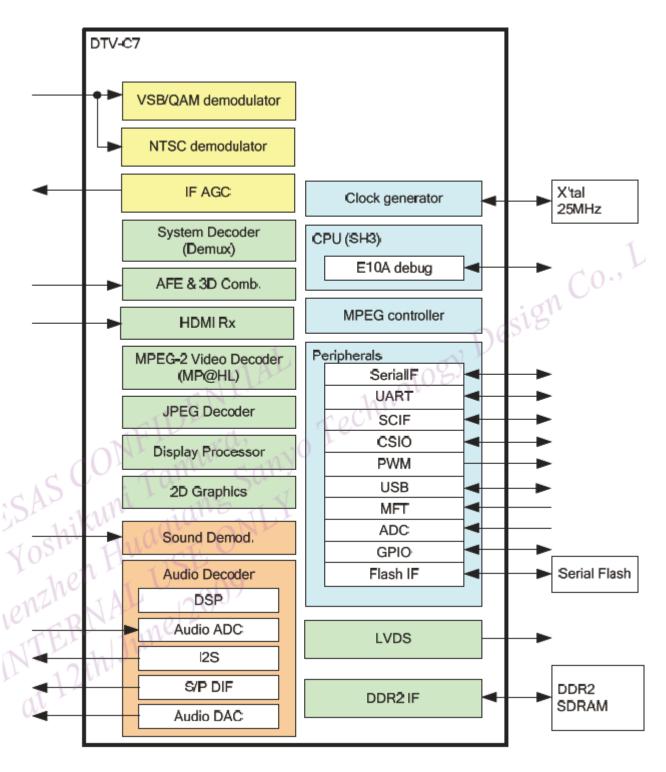
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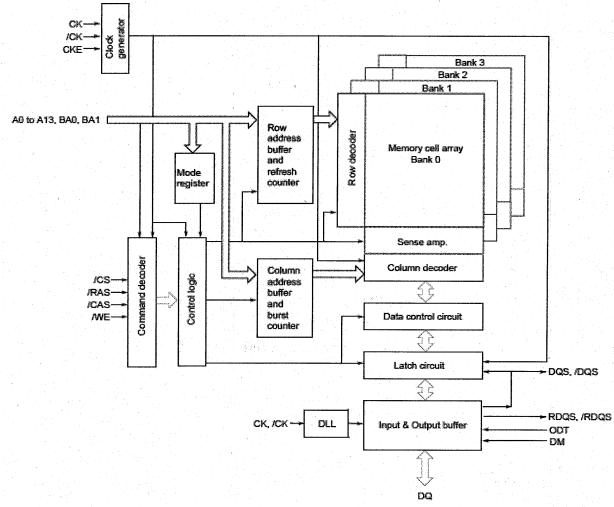
IC1501 QLE24C023M-EP



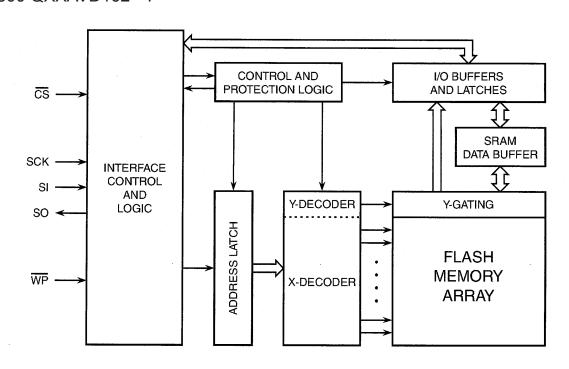
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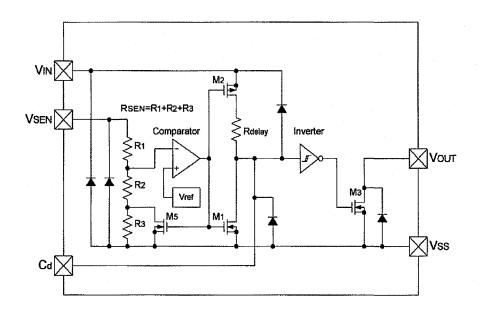
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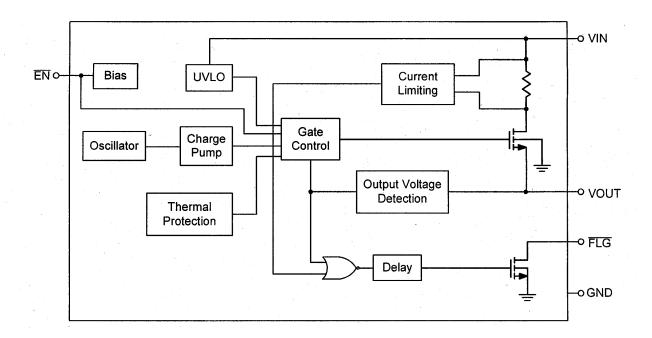
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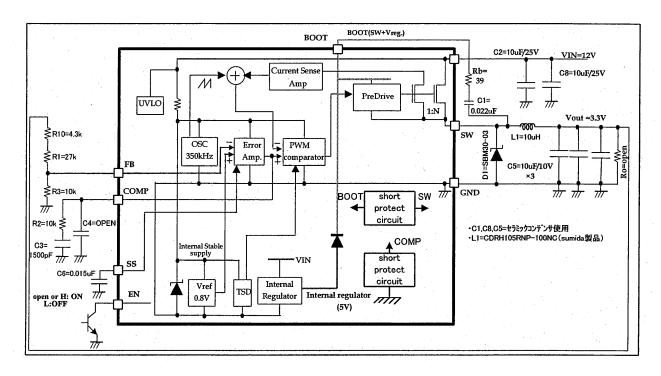
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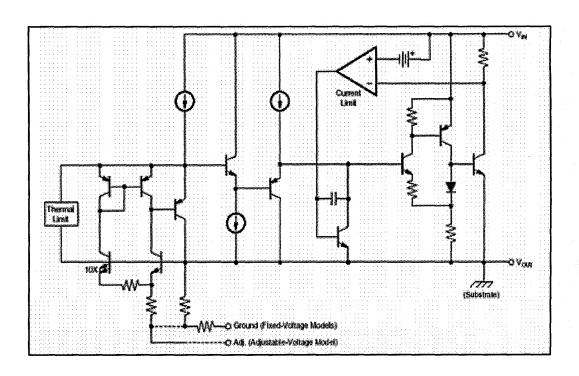
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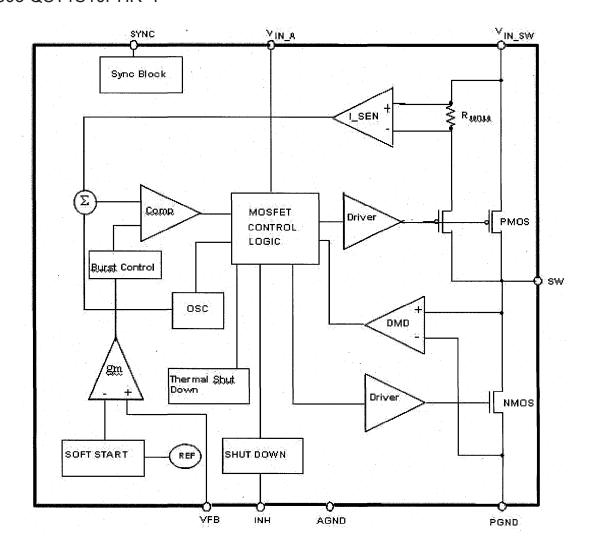
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IC6801 QLM1117S-ADJP

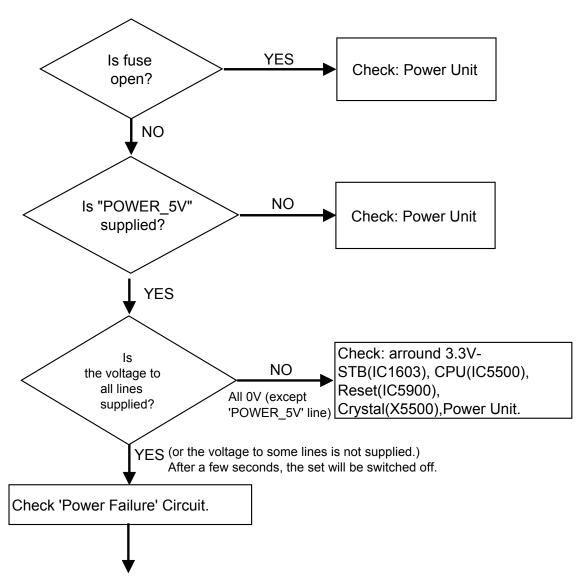


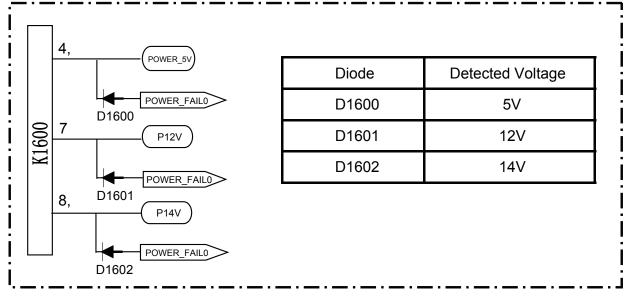
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TROUBLESHOOTING FLOW CHARTS

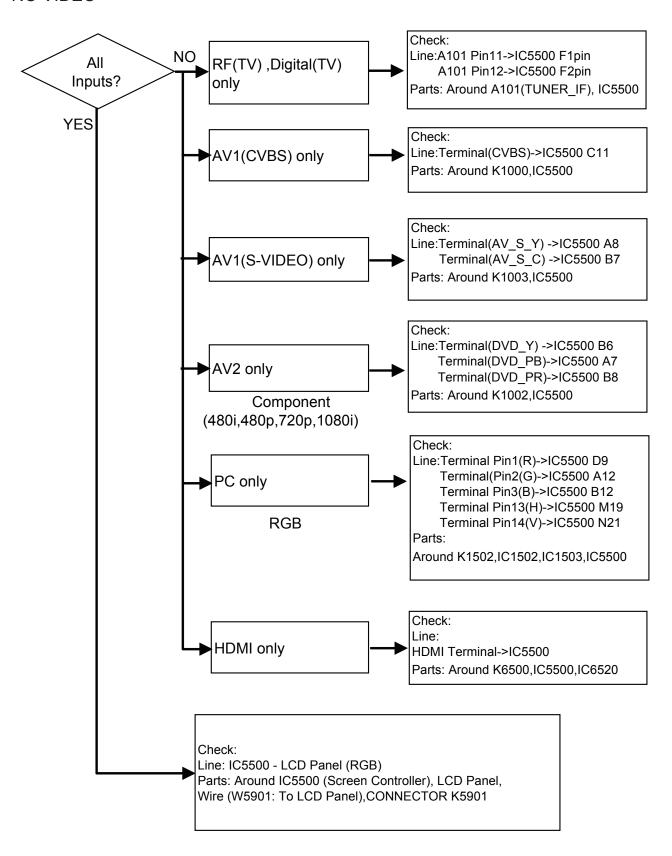
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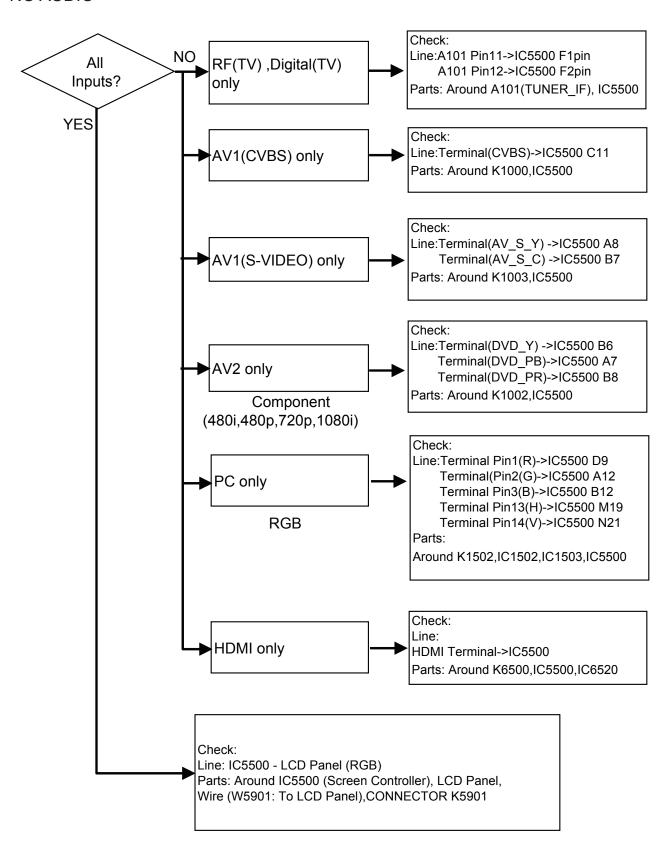
TROUBLESHOOTING FLOW CHARTS

NO VIDEO



TROUBLESHOOTING FLOW CHARTS

NO AUDIO



CONTROL PORT FUNCTIONS

System Control

Ball NO	Symbol	Function0	Function1	Function2	Function3	Init.state	Drive str.	Unsed	Description	Note
L1	BCKO	GPIO	BCKO0			D	2mA	Pull-down	IIS out	Now pull down by R5583
M1 M2	ADATAO0	GPIO GPIO	ADATAO0			D D	2mA 2mA	Pull-down Pull-down	IIS out IIS out#0	Now pull down by R5581 Now pull down by R5580
M3	ADATAO1	GPIO	ADATAO1			D	2mA	Pull-down	IIS out#1	Now pull down by R5521
L3	ACLK	GPIO		ACLKO		D	2mA	Pull-down	Audio master clock	Now pull down by R5582
L2	SPDIFO	GPIO	SPDIFO0			D	2mA	Pull-down	SPDIF OUT	SPDIF_C5
AB22	SCISCK0	GPIO	SCISCK0	MFT0A	MFT1B	D	2mA	Pull-down	Multi function timer	AV_S_DET
AB21	SCIRXD0	GPIO	SCIRXD0	MFT1A	MFT0B	D	2mA	Pull-down	Multi function timer	Now NC,It should be pull down
W18	SCITXD0	GPIO	SCITXD0		MFT3B	D	2mA	Pull-down	Multi function timer	PC_DET. Now NC,It should be pull down
Y10	SCLK0	GPIO	SCLK0			D	2mA	Pull-down	GPIO	BACKLIGHT_EN (Active high)
AB10	STXD0	GPIO	STXD0			D	2mA	Pull-down	GPIO	TP2. Now NC,it should be pull down
AA10	SRXD0	GPIO	SRXD0			D	2mA	Pull-down	GPIO	PANEL_VEN (Active high)
AA19	SMCLK	GPIO				D	4mA	Pull-down	GPIO	Pull up by R5539, now NC,it should be pull down
AB19	SMDATA	GPIO				D	4mA	Pull-down	GPIO	Pull down by R5536,Now NC
AA18	SMRST	GPIO				D	4mA	Pull-down	GPIO	Now TP4,it should be pull down
Y19	SCISCK1	GPIO	SCISCK1			D	4mA	Pull-down	Serial interface	Now pull down
AA20	SCITXD1	GPIO	SCITXD1			D	4mA	Pull-down	Serial interface	Now pull down
AB20	SCRXD1	GPIO				D	4mA	Pull-down	Serial interface	Now TP3,it should be pull down
V19	SFCK	GPIO	SFCK			D	4mA		Serial flash clock	SPI_SCK
Y21	SFTX	GPIO	SFTX			D	4mA		Serial flashtransmit	SPI_SDI
AA22	SFRX	GPIO	SFRX			D	4mA		Serial flash receive	SPI_SDO
AB18	SFHO_N	GPIO				D	4mA	Pull-down	GPIO	Now pull down by R5535
AA21	SFWP_N	GPIO				D	4mA	Pull-down	Serial flash write protect	FLASH_WP
Y20	SFCS_N	GPIO				D	4mA		Serial flash chip	SPI_CSN
K3	SICL0	GPIO	SICL0			D	4mA	Pull-down	Select Tuner serial	TUNER_SCL
K2	SIDA0	GPIO	SIDA0			D	4mA	Pull-down	interface(clock) Tuner serial	TUNER_SDA
Y18	SICL1	GPIO				D	4mA		interface(data) Legacy serial	_
			SICL1					Pull-down	interface(clock) Legacy serial	EEPROM_SCL. Now NC,it should be pull down
W19	SIDA1	GPIO	SIDA1			D	4mA	Pull-down	interface(data) Demodulator IF	EEPROM_SDA. Now NC,it should be pull down
J1	IFAGC	GPIO	IFAGC	AIFAGC		D	4mA	Pull-down	AGC Demodulator RF	IF_AGC
L4	RFAGC	GPIO	RFAGC			D	4mA	Pull-down	AGC	Now pull down by R5520
K1	SANT	GPIO				D	4mA	Pull-down	GPIO	Now pull down by R5516
W17	QBLCA	GPIO			QBLCA	D	4mA	Pull-down	PWM output	BACKLIGHT_ADJ
Y17	QBLCB	GPIO	IRQ0		QBLCB	D	4mA	Pull-down	PWM output	Now pull down by R5569
R20	UARTRXD0	GPIO			UARTRXD0	D	4mA	Pull-down	UART	RS232_TX
R19	UARTTXD0	GPIO			UARTTXD0	D	4mA	Pull-down	UART GPIO(Do not drive	RS232_RX
U22	M32TRST_N	M32TRST_N		GPIO		I	4mA	Open	high during the system resetted)	M32TRST_N
V22	M32TCK	M32TCK		GPIO		1	4mA	Open	GPIO	M32TCK
U20 U21	M32TMS M32TDI	M32TMS M32TDI		GPIO GPIO		I	4mA 4mA	Open Open	GPIO GPIO	M32TMS M32TDI
T19	M32TDO	M32TDO		GPIO		0	4mA	Open	GPO	M32TDO
W20	GPIO0	GPIO				D	4mA	Pull-down	GPIO	USB1_PEN_N (Active high)
Y22	GPIO1	GPIO				D	4mA	Pull-down	GPIO	USB1_OC_N
U19	GPIO2	GPIO				D	4mA	Pull-down	GPIO	Now pull down by R5546
V20	GPIO3	GPIO				D	4mA	Pull-down	GPIO	PANEL_SEL. Now NC,it should be pulldown
W21	GPIO4	GPIO			VBUS_Ctrl	D	4mA	Pull-down	VBUS control	Now pull down by R5543
W22	GPIO5	GPIO			VBUS_St	D	4mA	Pull-down	VBUS status input	Now Pull up by R5544
V21	GPIO6	GPIO				D	4mA	Pull-down	GPIO	Now pull up by R5545
M21	GPY05	GPIO	IRQ1		<u> </u>	D	4mA	Pull-down	INT	KEY_POWER
M19	GPY06	GPIO CPIO	IRQ2			D	4mA	Pull-down	INT	PC_HSYNC
N21 L21	GPY07 GPY08	GPIO GPIO	IRQ3 IRQ4	-		D D	4mA 4mA	Pull-down Pull-down	INT	PC_VSYNC LINE_OFF
		GPIO GPIO				D				_
L19	GPY09		MFT3A	-			4mA	Pull-down	Multi function timer	POWER_ON(Active high)
L22	GPY10	GPIO CPIO				D	4mA	Pull-down	GPIO CRIO	CUT_LEAK(Active low)
K20	GPY11	GPIO	.,	 		D	4mA	Pull-down	GPIO	Now pull down by R5555
K22 K21	GPY12 GPY13	GPIO GPIO	MFT4A MFT5A	MFT5B MFT4B		D D	4mA 4mA	Pull-down Pull-down	Multi function timer Multi function timer	HDMI_CEC_C7. Now NC,it should be pull down IR_IN
L20	GPY14	GPIO GPIO	MFT6A	MFT7B		D	4mA	Pull-down	Multi function timer	LED_GREEN(Active low)
K19	GPY15	GPIO GPIO	MFT7A	MFT6B		D	4mA	Pull-down	Multi function timer	LED_RED(Active low)
J20	GPY15 GPY16	GPIO GPIO	IVIF I / A	IVIFIOD		D	4mA 4mA	Pull-down	GPIO	HDMI_HPD0. Now pull down by R5560
J19	GPY17	GPIO			1	D	4mA	Pull-down	GPIO	Now pull down by R5561
		-		 		D	4mA	Pull-down	GPIO	HDMI_HPD2. Now pull down by R5559

SCHEMATIC NOTES

NOTES ON SCHEMATIC DIAGRAMS

- 1. All resistance values in ohms K=1.000 M=1.000.000.
- 2. Resistors specified with resistance value are "1/6DJ."
- 3. Resistors specified with type of resistor, tolerence and resistance value are "1/4."
- 4. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in μF (Micro Farad), and the values more than 1 are in pF.
- 5. All capacitors are 50 WV rating unless oterhwise noted.
- 6. Unless otherwise noted on schematic, voltage reading taken with VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
- 7. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an * may vary with signal strength.
- 8. The Symbol (indicates a fusible resistor, which protects the circuit from possible short circuits.
- 9. Parts enclosed with are related with X-radiation.
- 10. Isolation border line. Cold Side Hot Side
- 11. Schematic part location numbers may not always match the schematic symbols.

The schematic symbols and part descriptions are correct and should be used.

The part descriptions will be listed under the location number in the parts list.



ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

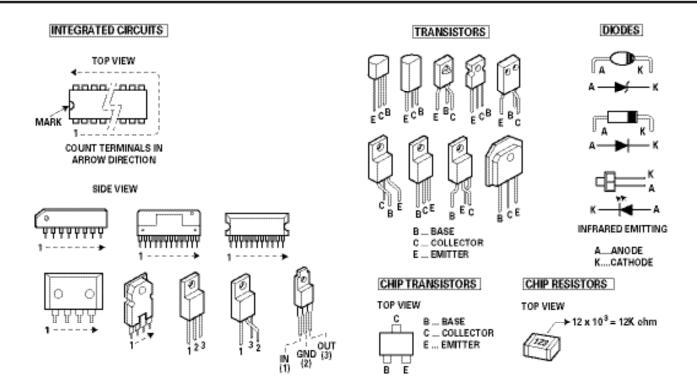
SERVICE NOTES:

- 1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.
- 2. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8) from circuit board.
- 3. Keep wires away from high voltage and high temperature components.

PRODUCT SAFETY NOTICE

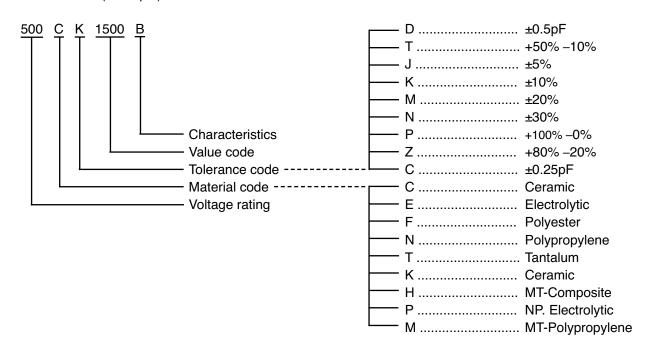
THE COMPONENTS DESIGNATED BY A \triangle ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A \triangle NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

IC, DIODE, AND TRANSISTOR PIN LAYOUTS

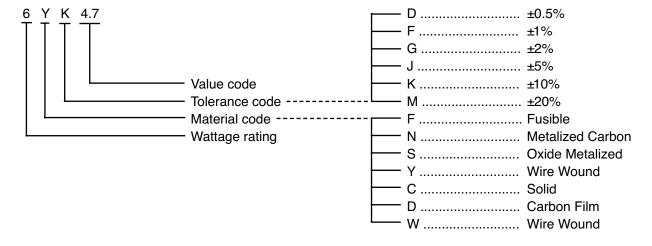


CAPACITOR AND RESISTOR CODE CHART

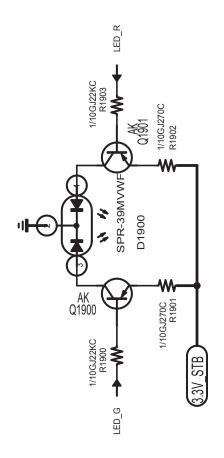
CAPACITOR (Example)

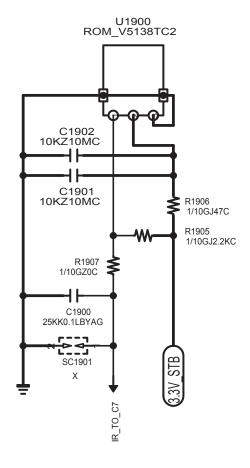


RESISTOR (Example)

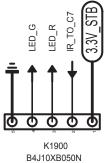


PWB RC_LED BOARD





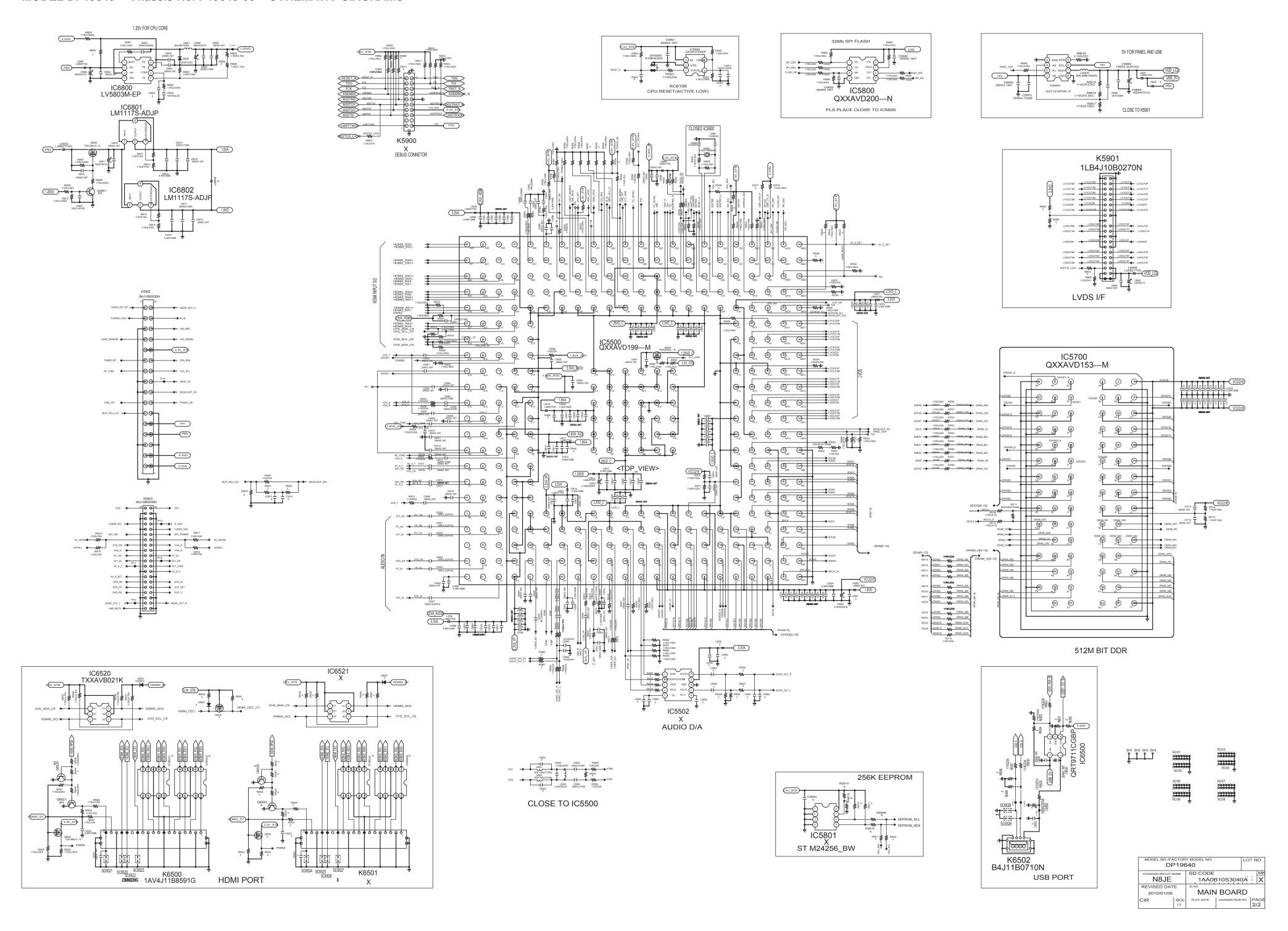




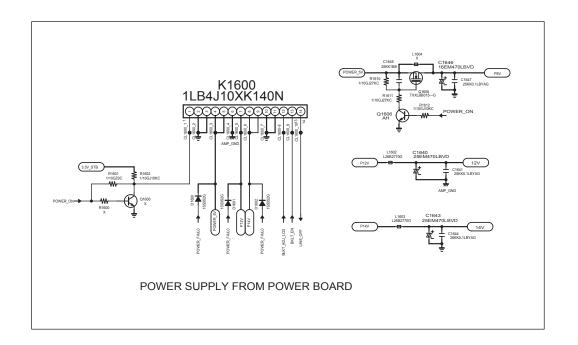
MODEL NO./F.		ORY MODEL 9640	NO.	LOT NO.		
CHASSIS/CIRCUIT NAME		SD CODE		MK		
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REVISED DATE		EI NO.				
2010/01/05		RC E	30AR	RD		
CIR	SCL	PLOT DATE	CHASSIS RUN N	io. PAGE		
	1.0			1/2		

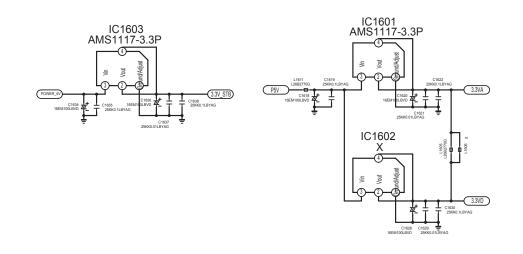
For parts or service contact Sanyo Manufacturing Corporation P.O.Box 2000 3333 Sanyo Road Forrest City, Arkansas 72335-2000

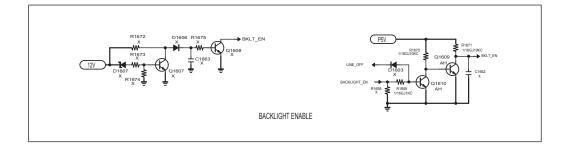
Jun 2010 SMC Published in Mexico.



MODEL DP19640 Chassis No. P19640-00 SCHEMATIC GIAGRAMS

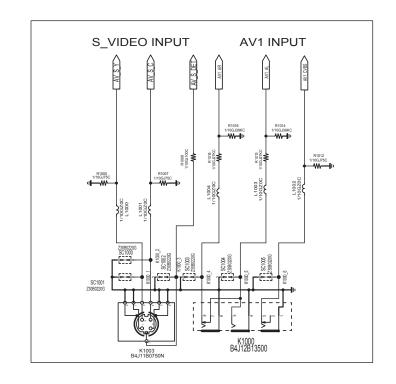


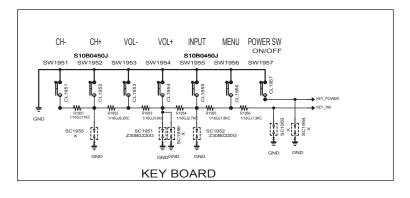


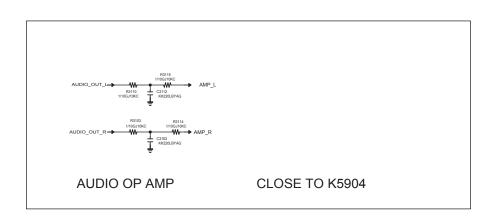


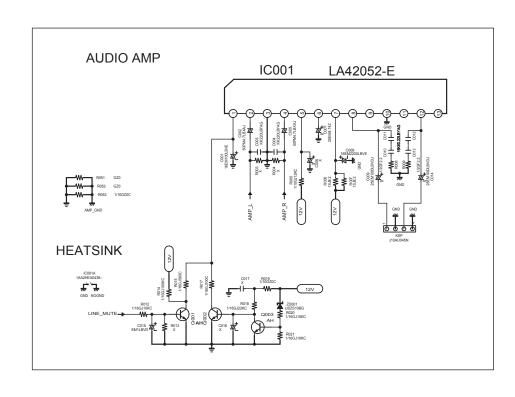
್ರ SPDIF

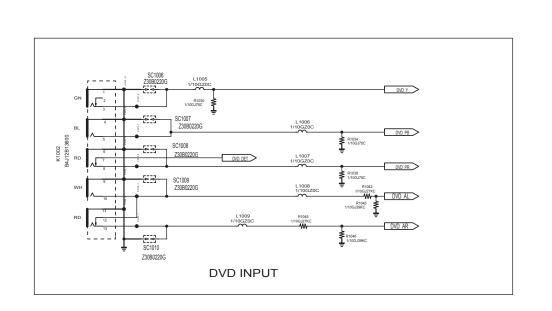
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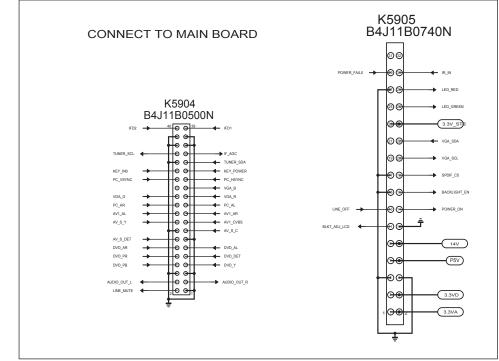


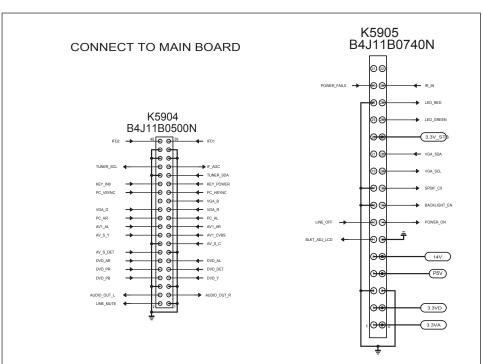


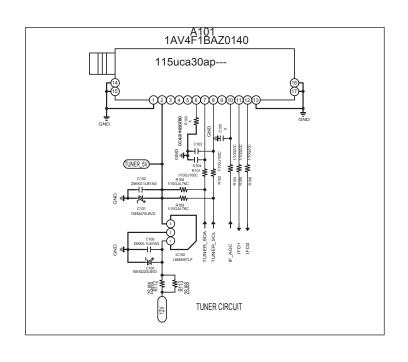


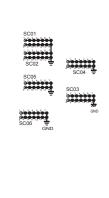






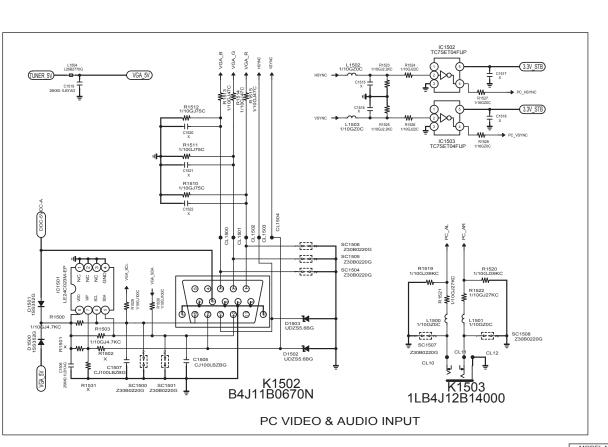






CONNECT TO RC BOARD

K1901



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	DP19640					
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			1AA0B10S3050A X			
	REVISED DATE		EI NO.			
	2010/01/05		SUB BOARD			
	CIR	SCL 1.0	PLOT DATE	CHASSIS RUN	NO. PAGE 1/2	